Oracle® Financial Services Profitability Analytics Cloud Service User Guide





Oracle Financial Services Profitability Analytics Cloud Service User Guide, Release 24C

G13218-03

Copyright © 2022, 2024, Oracle and/or its affiliates.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software," "commercial computer software documentation," or "limited rights data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle®, Java, MySQL, and NetSuite are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

1 About This Content

2	Getting	Started
	00000	O 101. 10 0.

2.1 Wel	come to Oracle Cloud	2-1
2.1.1	About Oracle Cloud	2-1
2.1.2	Supported Web Browsers	2-2
2.1.3	Order Oracle Cloud Applications	2-2
2.2 Gett	ting Started with Profitability Analytics Cloud Service	2-2
2.2.1	Create and Activate New Cloud Account	2-3
2.	2.1.1 Add to an Existing Oracle Cloud Account	2-5
2.2.2	Accessing the Cloud Account	2-5
2.2.3	Create an Environment	2-5
2.2.4	Access Oracle Identity and Access Management	2-6
2.2.5	Activate Application User Account	2-7
2.2.6	Configuring Session Timeout	2-8
2.	2.6.1 How to configure Session Lifetime Timeout?	2-9
2.3 Intro	oduction to Admin Console	2-9
2.3.1	Accessing Admin Console	2-10
2.4 Sys	tem Configuration	2-10
2.4.1	Metering	2-11
2.4.2	Component Details	2-12
2.4.3	Audit Trail Report	2-13
2.4.4	Configurations	2-14
2.4.5	Reports For Download	2-14
2.	4.5.1 Prerequisites	2-15
2.	4.5.2 Access Reports for Download	2-15
2.	4.5.3 Data Reporting - Data View	2-15
2.	4.5.4 View the Report Details	2-15
2.	4.5.5 Apply a Custom Filter to the Data View	2-16
2.5 Ider	ntity Management	2-16
2.5.1	Users Summary Page	2-17
2.	5.1.1 User Details	2-17
2.	5.1.2 Mapped/Unmapped Groups	2-18



	2.5.1.3 Available Groups	2-18
	2.5.2 Groups Summary Page	2-18
	2.5.2.1 Group Details	2-19
	2.5.2.2 Mapped/Unmapped Roles	2-19
	2.5.2.3 Available Roles	2-20
	2.5.3 Roles Summary Page	2-20
	2.5.3.1 Roles Details	2-20
	2.5.3.2 Mapped/Unmapped Functions	2-20
	2.5.3.3 Available Functions	2-21
	2.5.4 Functions Summary Page	2-21
	2.5.4.1 Function Details	2-22
	2.5.5 Folders Summary Page	2-22
	2.5.5.1 Folder Details	2-22
	2.5.5.2 Editing Folder Details	2-22
3	System Administration	
	3.1 Managing Application Users	3-1
	3.1.1 User Summary- Application Users	3-1
	3.1.2 Creating New Application Users	3-2
	3.1.3 Creating a New User Group	3-3
	3.1.4 Assign Groups to Users	3-3
	3.1.5 Bulk Import Application Users	3-4
	3.2 Managing User Groups	3-4
	3.2.1 Map Application with the User Groups	3-4
	3.2.2 Map Users to Groups	3-5
	3.2.3 Map Roles to User Group	3-6
	3.2.4 Unmap User from Groups	3-6
	3.3 User Management	3-6
	3.3.1 Application Users	3-7
	3.3.2 User Roles and Privileges	3-7
	3.3.2.1 Role Based Access Control	3-8
	3.3.2.2 User Roles and Activities	3-9
	3.3.2.3 User Groups	3-9
	3.3.2.4 Analytics Menu Access Privileges	3-10
	3.3.2.5 Application Menu Access Privileges	3-14
4	Dimension Management	
		А А
	4.1 Object Security 4.2 Components of Dimension Management	4-1
	4.2 Components of Dimension Management	4-1
	4.3 Members	4-1



4.3.1 N	lember Summary Page	4-2
4.3.2	Creating Member Definitions	4-2
4.3.3 N	lanaging Member Definitions	4-3
4.3.3	.1 Viewing Member Definition Details	4-4
4.3.3	.2 Editing Member Definition Details	4-4
4.3.3	.3 Copying Member Definition Details	4-4
4.3.3	.4 Deleting Member Definition Details	4-4
4.4 Attribut	es	4-5
4.4.1 A	attribute Summary Page	4-5
4.4.1	.1 Navigating Attribute Summary Page	4-5
4.4.2	Creating Attribute Definition	4-5
4.4.3 N	Managing Attribute Definitions	4-6
4.4.3	.1 Viewing Attribute Definition	4-7
4.4.3	.2 Modifying Attribute Definition	4-7
4.4.3	.3 Copying Attribute Definition	4-7
4.4.3	.4 Deleting Attribute Definition	4-8
4.4.4	Dimensions and Associated Attributes	4-8
4.5 Hierard	hy	4-9
4.5.1 H	lierarchies Summary Page	4-9
4.5.1	.1 Navigating Hierarchy Summary Page	4-10
4.5.2	Creating Hierarchy Definitions	4-10
4.5.2	.1 Audit Info	4-12
4.5.3 N	Managing Hierarchy Definitions	4-12
4.5.3	.1 Viewing Hierarchy Definition Details	4-12
4.5.3	.2 Editing Hierarchy Definition Details	4-13
4.5.3	.3 Copying Hierarchy Definition Details	4-13
4.5.3	.4 Deleting Hierarchy Definition Details	4-13
4.6 Viewin	g Data in a Summary Page	4-13
4.6.1	Searching Summary	4-13
4.6.2	Sorting a Summary Page	4-14
4.6.3	Setting Number of Records per Page	4-14
Data Mar	agement Tools	
5.1 PBSM	Balance Reconciliation	5-1
5.1.1 F	Reconciliation Definition	5-2
5.1.1	.1 Adding a New Reconciliation Definition	5-3
5.1.1	.2 Reconciliation Balance	5-5
5.1.1	.3 Actions Performed on Reconciliation Definition	5-5
5.1.2	Ouplicate Runs for Same As-of-Date	5-8
5.1.3 F	listorical Difference Report	5-9
5.1.4	Default Attributes	5-11



	5.1.4.1 Creating a New Product-Currency Combination and Default Attributes	5-12
	5.1.5 Reconciliation using Batch Process	5-14
	5.2 Data Verification	5-16
	5.3 Data Housekeeping	5-21
	5.3.1 Create Data Housekeeping Policy	5-23
	5.3.1.1 Create Drop Partition Policy	5-23
	5.3.1.2 Create Archive Policy	5-26
	5.3.1.3 Create Delete Policy	5-29
	5.3.2 Authorize a Policy	5-32
6	Setup Configurations	
	6.1 Preferences	6-1
	6.1.1 Global Preferences	6-2
	6.1.2 Application Preferences	6-3
	6.2 Batch Parameters	6-4
	6.3 Financial Element Mapping	6-5
	6.3.1 Navigation in the Summary Screen	6-5
	6.3.1.1 Search	6-6
	6.3.1.2 Financial Element Mapping Summary Table	6-7
	6.3.2 Adding a Financial Element Mapping	6-8
	6.4 Segmentation Mapping	6-10
	6.4.1 Navigation in the Summary Screen	6-10
	6.4.1.1 Search	6-10
	6.4.1.2 Segmentation Mapping Summary Table	6-11
	6.4.2 Creating a Segmentation Mapping	6-13
	6.5 Line Item Display Order	6-17
	6.6 Geography Mapping	6-19
	6.7 Metrics Generator	6-22
	6.7.1 Creating a New Management Ledger Metric6.7.2 Creating a New Instrument Metric	6-24 6-25
	6.7.2 Creating a New Instrument Metric	0-25
7	Operations	
	7.1 Scheduler Services	7-1
	7.1.1 Accessing Scheduler Services	7-1
	7.1.2 User Roles and Functions	7-2
	7.1.3 Define Batch	7-2
	7.1.3.1 Creating a Batch/Batch Group	7-3
	7.1.3.2 Editing a Batch/Batch Group	7-4
	7.1.3.3 Copying a Batch/Batch Group	7-4
	7.1.3.4 Deleting a Batch/Batch Group	7-4



7.1.4	Defi	ine Tasks	7-5
7.	1.4.1	Adding a Task	7-5
7.	1.4.2	Modifying a Task	7-6
7.	1.4.3	Define Task Precedence	7-6
7.	1.4.4	Deleting a Task	7-7
7.1.5	Man	naging Batch/Batch Group Executions	7-7
7.	1.5.1	Execute Batch/Batch Group	7-8
7.	1.5.2	Adding Pre-Conditions For Batch Group Execution	7-8
7.	1.5.3	Edit Dynamic Parameters	7-9
7.	1.5.4	Scheduling and Automating Batch/Batch Group Execution	7-9
7.	1.5.5	Re-run Batch/Batch Group	7-11
7.	1.5.6	Re-start Batch/Batch Group	7-11
7.1.6	Mon	nitor Batch/Batch Group	7-12
7.1.7	Sch	eduler Service Dashboard	7-13
7.2 Obj	ect Miç	gration	7-13
7.2.1	Migı	ration Object Types	7-14
7.2.2	Acc	essing Object Export and Object Import Features	7-17
7.2.3	Obje	ect Export Definitions	7-17
7.	2.3.1	Creating Export Definitions	7-18
7.	2.3.2	Editing Export Object Definitions	7-18
7.	2.3.3	Exporting Object Definition	7-19
7.	2.3.4	Viewing Export Object Details	7-19
7.	2.3.5	View Object Definition Export Log Details	7-19
7.	2.3.6	Downloading Dump File	7-20
7.	2.3.7	Deleting Export Object Definition	7-20
7.2.4	Obje	ect Import Definitions	7-20
7.	2.4.1	Creating Object Import Definitions	7-21
7.	2.4.2	Editing Import Definitions	7-23
7.	2.4.3	Importing Object Definitions	7-23
7.	2.4.4	Viewing Import Object Details	7-24
7.	2.4.5	Viewing Object Import Log Details	7-24
7.	2.4.6	Deleting Import Definition	7-25
7.3 Cha	anging	Object Ownership	7-25
Precurs	sor to	o Analytics	
Reports	s & <i>F</i>	Analytics	
		usiness Intelligence (BI) Reports	9-1
· ·		Data using SQL Query Browser	9-2
9.3 Cre	ating A	Adhoc Reports and Analysis	9-7



	9.3.1	Ame	nd Out-of-the-Box Reports	9-7
	9.3.2	Ad-h	oc Analysis Folder	9-9
	9.3.3	Work	ring with Out-of-the-Box Subject Area	9-10
9.4	Oper	ationa	ıl Analysis	9-11
	9.4.1	Dime	ensions Registry	9-11
	9.4.2	Curre	ency Rates	9-12
	9.4.3	Segn	nent Registry	9-12
	9.4.4	Data	Quality Checks	9-13
	9.4.5	File (Jploads Report	9-19
	9.4.6	Grou	ps and Roles Report	9-21
	9.4.7	Table	es and Partitions Report	9-25
9.5	Mana	ageme	ent Reporting	9-28
	9.5.1	Mana	agement Ledger Based Reporting	9-28
	9.5	.1.1	Report Common Filters	9-29
	9.5	.1.2	In canvas Variable Prompts	9-31
	9.5	.1.3	Report Data Action	9-32
	9.5	.1.4	Top Down Summary	9-36
	9.5	.1.5	Time	9-40
	9.5	.1.6	Detailed IS	9-43
	9.5	.1.7	Detailed BS	9-47
	9.5	.1.8	Defined Org Unit	9-48
9.6	Profit	ability	Insights	9-51
	9.6.1	Instru	ument Level Aggregation and Insights	9-52
	9.6	.1.1	Report Common Filters	9-52
	9.6	.1.2	In canvas Variable Prompts	9-55
	9.6	.1.3	Report Data Action	9-56
	9.6	.1.4	Org Unit	9-58
	9.6	.1.5	Product	9-62
	9.6	.1.6	Region	9-66
	9.6	.1.7	Time	9-70
	9.6	.1.8	Detailed Income Statement	9-71
	9.6	.1.9	Channel Canvas	9-72
	9.6	.1.10	Other Insights	9-73
9.7	Custo	omer F	Profitability	9-76
	9.7.1	Instru	ument Level Aggregation and Insights	9-77
	9.7	.1.1	Report Common Filters	9-77
	9.7	.1.2	In-canvas Variable Prompts	9-79
	9.7	.1.3	Customer Details Canvas	9-79
	9.7	.1.4	Customer Life Time Value	9-84
	9.7	.1.5	Customer vs Segment	9-86
	9.7	.1.6	Segment Comparator	9-89
	9.7	.1.7	Segment Analysis	9-93



		9.7.1.8	Segment Income Statement	9-98
		9.7.1.9	RM Profitability	9-100
		9.7.1.10	O Inter-Segment Movement	9-103
		9.7.1.11	Customer Group Details	9-105
	9.8	Geograph	ny Profitability	9-109
	9.8	8.1 Rep	port Common Filters	9-110
	9.8	8.2 Sur	mmary Tab	9-113
	9.8	8.3 Key	/ Business Metrics Tab	9-114
	9.8	8.4 Key	/ Performance Metrics Tab	9-116
	9.8	8.5 Oth	ner Ratios	9-118
	9.9	Custom N	Metrics	9-120
	9.9	9.1 Rep	port Filters	9-121
	9.9	9.2 In c	anvas Variable Prompts	9-123
	9.9	9.3 Inst	trument Custom Metrics Canvas	9-124
	9.9	9.4 Mai	nagement Ledger Custom Metrics Canvas	9-125
10	Tech	nical C	Documents	
TO				
	10.1	Run Cha	art	10-1
	10.2	Data Flo		10-1
	10.3		er Master Loader	10-1
	10.4		er Hierarchy Loader	10-3
	10.5	Reportir	ng Data Model	10-5



About This Content

This guide provides information on the Oracle Financial Services Profitability Analytics Cloud Service (OFS PACS).

Audience

This guide is intended for the users of Oracle Financial Services Profitability Analytics Cloud Service (OFS PACS).

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Resources

See these Oracle resources:

- Oracle Financial Services Profitability and Balance Sheet Management Cloud Service
- Oracle Financial Services Profitability Analytics Cloud Service
- Licensing Information User Manual

Conventions

The following text conventions are used in this document.

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Getting Started

This chapter covers the Oracle Cloud, followed by Profitability Management Cloud Service and the instructions to get started with the cloud service, and instructions to use the Admin Console.

Topics:

- Getting Started with Oracle Cloud: Oracle Cloud is the industry's broadest and most integrated cloud provider, with deployment options ranging from the public cloud to your data center. Oracle Cloud offers best-in-class services across Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (laaS).
- Profitability Analytics Cloud Service: The Financial Services Profitability Analytics Cloud Service enables Banks and other Financial Services institutions to identify profitable and potentially profitable portfolios, accounts, and customer relationships and understand its enablers. Top Down Reporting from Management Ledger and Bottom Up reporting from instrument tables for different user roles is supported. Key elements of BI content include Strategic Insights around Org Unit, Product, and Customer including account and segment level profitability.
- Introduction to Admin Console: Use the Admin Console to perform System Configuration
 and Identity Management. It is a single point of access to manage identity functions and
 view administrative features such as Metering, Audit Trail Report and other miscellaneous
 configuration details in the Profitability and Balance Sheet Management Cloud Service
 (PBSMCS).

2.1 Welcome to Oracle Cloud

Oracle Cloud is the industry's broadest and most integrated cloud provider, with deployment options ranging from the public cloud to your data center.

Oracle Cloud offers best-in-class services across Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (laaS).

2.1.1 About Oracle Cloud

Oracle Cloud is one of the few cloud providers that can offer a complete set of cloud services to meet all your enterprise computing needs.

Use Oracle Infrastructure as a Service (IaaS) offering to quickly set up the virtual machines, storage, and networking capabilities you need to run just about any kind of workload. Your infrastructure is managed, hosted, and supported by Oracle.

Use Oracle Platform as a Service offerings to provision ready-to-use environments for your enterprise IT and development teams, so they can build and deploy applications, based on proven Oracle databases and application servers.

Use Oracle Software as a Service (SaaS) offerings to run your business from the Cloud. Oracle offers cloud-based solutions for Human Capital Management, Enterprise Resource Planning, Supply Chain Management, and many other applications, all managed, hosted, and supported by Oracle.

2.1.2 Supported Web Browsers

Oracle Financial Services Cloud Services support the latest version of the following major browsers:

- Google Chrome
- Microsoft Edge
- Mozilla Firefox

For more details, see Oracle Software Web Browser Support Policy.

When sharing a link to a document or folder, users of Microsoft Edge need to use the Show Link button and copy the link shown in the dialog.

2.1.3 Order Oracle Cloud Applications

You can order Oracle Cloud Applications (Software as a Service) offerings by contacting Oracle Sales. After your order is processed, you can then activate your services.

To order a subscription to Oracle Cloud Applications:

- 1. Go to the Oracle Financial Services Risk and Finance solutions page.
- 2. Scroll down and select **Profitability Analytics**.
- 3. Review the features and capabilities of the service and read the Datasheet.
- 4. When you are ready to order, scroll up and click **Request a Demo**.
- You can either write an email or click Request Now to receive a call from Sales.
- 6. Enter your Business email, select the confirmation check box, and click Continue.
- Provide a description of your need and click Request Now.

Later, after you have worked with Oracle Sales to order the Oracle Cloud Application best suited to your requirements, you will receive an email, which contains a link you can use to activate the service you have ordered.

To know how to activate, see Create and Activate New Cloud Account.

2.2 Getting Started with Profitability Analytics Cloud Service

To get started, you must activate the Profitability Analytics Cloud Service (PACS). After activating the Cloud Service, you can onboard Application Users to use the subscribed Cloud Services.



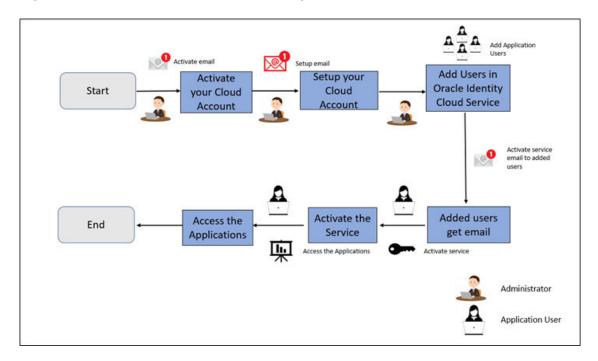


Figure 2-1 Illustration of the Cloud Subscription Workflow

This topic describes the set of actions that can be performed by:

- An Administrator to activate the Cloud Account and onboard Applications Users for the subscribed Cloud Services.
 - Create and Activate New Cloud Account
 - Access the Cloud Account
 - Access the Oracle Identity Cloud Service Console
- The Application Users to activate and use the Cloud Services that are provisioned by the Administrator.
 - Activate your Account as Application Users

2.2.1 Create and Activate New Cloud Account

After you subscribe to the cloud service, you will receive a **Welcome to Oracle Cloud** email with details to create and activate your cloud account.

To create and activate a new cloud account:

- 1. Click Create New Cloud Account in the email.
- 2. Complete the New Cloud Account Information to sign up.



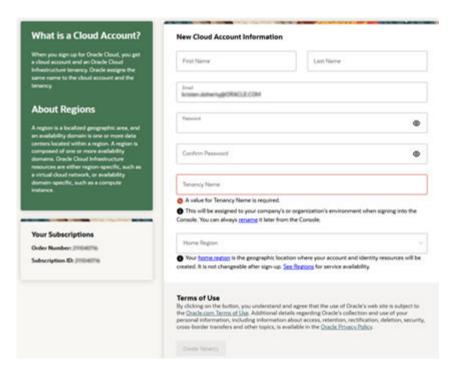


Figure 2-2 New Cloud Account Information page

- Enter the following details:
 - First Name and the Last Name of the person who will be the cloud administrator.
 - **Email** address of the person who will be the cloud administrator. Instructions to log into the new Oracle Cloud Account will be sent to this email address.
 - Password to access the new cloud account.
 - Tenancy Name: New Tenancy Name to be associated with the cloud account.



You cannot modify the tenancy name after it is created. Hence, ensure to provide a valid tenancy name, based on your organization's requirements and naming conventions.

 Home Region: Select the Home Region, where the account is located. Check the service availability before selecting the home region.
 For assistance regarding home region selection, contact Oracle support. Existing

customers have to ensure that the identity resources are located in the home region.



You can subscribe to additional regions but you cannot modify the home region, after provisioning your tenancy.

4. Click Create Tenancy to access the New Cloud Creation Confirmation page.

After successful activation, the cloud account administrator will receive a **Get Started Now** with **Oracle Cloud** email.



2.2.1.1 Add to an Existing Oracle Cloud Account

If you already have a cloud account associated with your administrator user name, you can add the newly subscribed cloud service to that account.

To add an existing Cloud account:

- 1. In the welcome email, click **Add** to add an existing cloud account.
- Perform the steps as mentioned in the Access the Oracle Cloud Infrastructure Identity and Access Management (IAM) console.

2.2.2 Accessing the Cloud Account

An Administrator can access the Cloud Account activated and associated with their email address.

After your new cloud account is created and activated, you will receive a **Get Started Now** with **Oracle Cloud** email, to the email address provided while creating the account.

To access your Cloud account:

- 1. In the Get Started Now with Oracle Cloud email, click Sign In.
- 2. Enter the **Tenancy** name and click **Continue**.
- 3. Enter the Username and Password to log in to the OCI Console .

Use the same **Username** and the **Password** that you provided during activation setup.

4. After successful login, proceed with the multi-factor authentication. Select the configured authentication mode and enter the OTP generated using the Oracle Mobile Authenticator application.

Once the MFA is successfully completed, you can access the **Environment Page**.

2.2.3 Create an Environment

After logging into the Oracle Cloud Infrastructure Console, an Administrator can create one or multiple environments/instances for different user groups.

To create an environment/instance:

Log in to Oracle Cloud Infrastructure Console (OCI).

You can view the list of all the environments (instances) provisioned for the one or multiple cloud applications, with the following details:

- Name: The cloud application's instance name.
- Type: The instance type.
- Life cycle status: The instance status.
- Region: The region from where the specific instance is active.
- Application URL: The URL to access the instance.
- From My Applications, click the application in which you want to create an environment. Example: Oracle Financial Services Crime and Compliance Management Anti Money Laundering.
- 3. On the Overview page, click Environments.



- From the Compartments drop-down list, select the compartment in which you want to create an environment.
- Click Create, to access the list of cloud services to which the customer has subscribed and the region from where these services are operated.
- (Optional). Select the Region to host the OCI environment/instance, from the drop-down list.

If you are not sure about the region, contact My Oracle Support (MoS).



You can select the region only for the first environment/subscription and for the additionally added instances, the region cannot be modified.

- Enter the following Environment Details, and click Create.
 - Name: The name of the new environment or instance.

Note:

You cannot modify the environment name after the environment is created. Hence, ensure to provide a valid environment name, based on your organization's requirements and naming conventions.

- **Instance type**: Select one of the following instances:
 - Production: If the environment is used for Production activities.
 - Non-production: If the environment is used for testing and development purposes. For example, a sandbox environment.
- Admin email: The administrator email ID used to log in to the Cloud Console. You can also enter a different email ID that needs to be part of the cloud tenancy. For more details, see Managing Users.
- Admin first name and Admin last name: The first and last names of the Administrator.

The environment details are added to the Oracle Cloud Infrastructure Classic Console under the **Environments** tab (LHS menu). It may take a few hours for the status to change to Active. If there are any issues, you can raise a service ticket with My Oracle Support (MoS).

After the environment is set to **Active**, click the environment name to view the **Environment details**. Click the Service console URL under **Environment Information** to create users and groups.

2.2.4 Access Oracle Identity and Access Management

Oracle Cloud Infrastructure Identity and Access Management (IAM) provides identity and access management features such as authentication, single sign-on (SSO), and identity life cycle management for Oracle Cloud as well as Oracle and non-Oracle applications, whether



SaaS, cloud-hosted, or on-premises. Employees, business partners, and customers can access applications at any time, from anywhere, and on any device in a secure manner.

IAM integrates with existing identity stores, external identity providers, and applications across cloud and on-premises to facilitate easy access for end users. It provides the security platform for Oracle Cloud, which allows users to securely and easily access, develop, and deploy business applications such as Oracle Human Capital Management (HCM) and Oracle Sales Cloud, and platform services such as Oracle Java Cloud Service, Oracle Business Intelligence (BI) Cloud Service, and others.

Administrators and users can use IAM to help them effectively and securely create, manage, and use a cloud-based identity management environment without worrying about setting up any infrastructure or platform details.

To add users to your Cloud Services, navigate to the **Oracle Identity and Access Management (IAM)** Console.

To access the IAM Console:

- Log in to Cloud.Oracle.com, to view all the details pertaining to your cloud order.
 Access the service link from the console to start using your subscriber cloud service.
- Enter the Cloud Account Name and click Next to access the IAM Console.
- 3. Click **Change tenancy** option if you want to use a different tenancy.
- 4. Ensure that the displayed identity domain matches the expected value.



Cloud environments are created under the **Default** identity domain. If you need to assign your environment to a different identity domain, raise a Service Request.

5. Log in with your Username and Password.

As an Administrator, you can create and manage users with different access rights to the Cloud Service.

For example, the IAM Administrator has superuser privileges for an Oracle Identity and Access Management Domain. This administrator can create users, groups, group memberships, and so on.

2.2.5 Activate Application User Account

A user provisioned by their administrator can use the specific cloud services they have subscribed to.

When an administrator completes provisioning an application user, the user receives an account activation email from Oracle.

To log in and activate your application user account:

- 1. Open the email received from Oracle and review the information about your service in the email.
- Click Activate Your Account. You will be prompted to change your password on the initial log in.
- 3. Enter your new credentials in the **Reset Password** window to activate your account. After the password is successfully reset, a **Congratulations** message is displayed.



- 4. Access the Application URL shared by the administrator.
- 5. Enter your credentials to sign in to your account and access the **Welcome Page**.

2.2.6 Configuring Session Timeout

Session timeout automatically signs you out of a logged in session after a set time period, for various reasons such as inactive session for a specific time frame.

After you complete your tasks, you can sign out of your application. However, sometimes you might get automatically signed out due to session timeouts.

When you sign in using your credentials, you are authenticated to use the application, and a session is established. But, for security purposes, your session is configured to be active for a predefined duration, which is called the session timeout period. Your sessions can expire due to various reasons, such as an inactive session for a specific time period. In such cases, you are automatically signed out of the application. Your timeout periods may vary on certain pages. For example, you may observe a longer timeout period on pages that automatically refresh or user portal/tabs that open in separate windows or tabs.

The various session timeouts and the configuration details are as follows:

Ti me out Ty pe	Description	C o n fi g u r a b I e	Timeout Duration
Ses sio n Life tim e Tim eou t	After authenticating to the application, your current session remains active for a predefined duration, referred to as the session lifetime timeout period. Your session ends after this period, even if you're using the application.	Y e s	8 Hours (Default value)
Ina ctiv e Ses sio n Tim eou t	After authenticating to the application, if your session is idle or inactive for a specific time, the System automatically terminates the session, and you are signed out of the session.	N 0	60 Minutes



Ti me	Description	C o	Timeout Duration
out		n	
Ty		fi	
pe		g	
		u	
		r	
		a	
		b	
		ı	
		е	
Bro	After authenticating to the application, if your browser session is idle or inactive for	Ν	60 Minutes
wse	a specific time, the System automatically terminates the session, and you are	0	
r	signed out of the session.		
Ina			
ctivi			
ty			
Tim			
eou			
t			

2.2.6.1 How to configure Session Lifetime Timeout?

You can configure the Session Lifetime Timeout using your Identity Domain Settings in OCI Console.

Ensure that you have the Security Administrator Role mapped to access and modify the settings.

To configure the session timeout:

- 1. Log in with your Security Administrator Account.
- 2. Navigate to the Domain page. Click **Settings** and select **Session Settings**.
- Specify the Session Duration under Session Limits. Enter the required value. By default, this is set to 480 Minutes.

Figure 2-3 Session Settings



2.3 Introduction to Admin Console

Use the Admin Console to perform System Configuration and Identity Management.

Admin Console is the single point of access to manage identity functions and view administrative features such as Metering, Audit Trail Report and other miscellaneous configuration details in the Cloud Service.

2.3.1 Accessing Admin Console

Access Admin Console from the home page of Financial Services Analytical Applications.

To access the Admin Console, ensure that the cloud administrator grants you administrative privileges by mapping your user account to the Identity Administrator and Identity Authorizer user groups. These user groups are seeded in Oracle Identity and Access Managment (IAM).

Before logging into the Admin Console, ensure that:

Note:

- If the Cloud Administrator has granted only Identity Management privileges and no other cloud application privilege, you will be automatically redirected to the Admin Console specific to subscribed cloud service, after a successful login.
- After a user signs in to the Cloud Service, the user to user-group Mapping
 created in the IAM Console will onboard into the Master and Mapping Tables. If
 you unmap a user from a group in the Admin Console, go to the IAM Console
 and open the Assign User to Groups. Unselect the user corresponding to the
 user group and click Finish. This step is mandatory to unmap the user.

To access the Admin Console:

- Enter the application URL in the browser's address bar to access the Oracle Cloud Account Sign In page.
- Enter the username and password on the Login page to log in to the Financial Services Analytical Applications.

After successfully logging in, you can view the **Financial Services Analytical Applications** homepage and the list of subscribed cloud applications. Click **Navigation** to hide the Applications Navigation List.

Click Admin Console at the top of the Financial Services Analytical Applications home page.

In the Admin Console, you can view the **System Configuration** and **Identity Management** tabs. Use these tabs to perform the following tasks:

- Administrator Tasks:
 - View the Metering Report, Audit Trial Report, Object Storage, and Object
 Authentication (OAUTH) credential details in the System Configuration tab.
 - Perform the Identity and Access Management operations in the Identity
 Management tab.
- Authorizer Tasks:
 - Authorize the Identity and Access Management Operations in the Identity Management tab.

2.4 System Configuration

Administrators can monitor the usage of service units and user activities through the System Configuration.

With System Configuration, administrators can view the consumption of service units. You can also view the following:

- The Audit Report to see what actions the users have performed in the application and when they have performed them
- The provisioned object storage details and the OAuth authentication details
- The production instance URL and the email ID of the login user

The components are as follows:

- Metering: Click Metering to view the usage of services using the Metering Report.
- Audit Trail Report: Click Audit Trail Report to view details such as the user's login and logout information, the action they performed, the status of the actions, and the date and time of each action.
- Component Details: Click Component Details to view details such as the Object Storage, Pre-Authenticated Request (PAR) URL, and OAuth authentication details.
- **Configurations**: Click **Configurations** to specify the instance name and the user(s) who receive emails related to operations tasks.

2.4.1 Metering

View annual usage of transactions and report types.

Use the **Metering** page to view the annual unit usage of the number of transactions and the number of report types within your cloud service.

The following table shows the methodology employed to measure the usage of each of the products.

Table 2-1 Metering Methodology

Product	Metering Methodology
Transaction Monitoring Cloud Service	Number of transactions per month.
Regulatory Reporting Cloud Service	Number of templates configured of a country or jurisdiction for filing to a regulator.
Know Your Customer (KYC) Cloud Service	Count of Risk Assessments created for both KYC Onboarding and KYC Continuous Monitoring in the production environment. Metering excludes the deployment initiation batch (first time risk assessment of all existing customers for a client).
Customer Screening Cloud Service	Sum of customers screened via batch per day and via real time for a duration of one month.
Transaction Filtering Cloud Service	Sum of transaction messages screened via real time for a duration of one month.
Compliance Agent Cloud Service	Number of experiments run.
Investigation Hub Cloud Service	Pooled Named User (Defined as an individual authorized by you to access the hosted service, regardless of whether the individual is actively accessing the hosted service at any given time during one calendar month).



Table 2-1 (Cont.) Metering Methodology

Product	Metering Methodology
iHub Real-time Customer Screening	Pooled Named User (Defined as an individual authorized by you to access the hosted service, regardless of whether the individual is actively accessing the hosted service at any given time during one calendar month).
Studio Cloud Service	Number of Transactions
Monitor Cloud Service	Pooled Named User (Defined as an individual authorized by you to access the hosted service, regardless of whether the individual is actively accessing the hosted service at any given time during one calendar month).

2.4.2 Component Details

Use Component Details to view the object storage standard and archive details, and OAUTH authentication details.

Object storage is used for data to which you require fast, immediate, and frequent access. Archive storage is used for data which you do not access regularly but must be retained and preserved for long periods of time.

With every instance of the application provisioned, two buckets are provisioned: a standard storage bucket and an archive storage bucket. The data files that you want to load into the application for processing must be uploaded to the standard storage bucket. The files are automatically moved to the archive storage bucket after a period of 7 days.

To access Component Details:

- 1. Login to the Admin Console.
- Go to the System Configuration tab and click Component Details.

You can access the following tabs from the Component Details tab:

- OCI Console : Access the OCI Console URL from the OCI Console tab.
- Object Storage Standard: When you provision an instance of the application, two buckets, a standard storage bucket and an archive storage bucket are automatically provisioned. The objects data that you want to load into the application for processing must be uploaded to the standard storage bucket.

Access and copy the following details related to the objects which are currently in use and require fast, immediate, and frequent access.

- Object Store Bucket Name: The logical container in which objects are stored
- Pre-Authenticated URL (PAR URL): Request that enables you to access a bucket without providing any credentials
- Object Storage Archive: Archive storage is used for storing objects that are not
 actively in use but need to be retained and preserved for extended periods. Objects
 are automatically moved from standard to archive storage after 7 days.
 Access and copy the following details related to the archived objects.
 - Object Store Bucket Name: The logical container in which objects are stored
 - Pre-Authenticated URL (PAR URL): Request that enables you to access a bucket without providing any credentials



- OAUTH Creds: Use OAUTH credentials (Client ID and Client secret) are used for implementing authentication in cloud services.
 - Access and copy the following OAUTH credentials:
 - OAUTH Client ID: ID of the OAuth client used for OAuth authentication performed by IAM during any API calls.
 - OAUTH Client Secret: Password of the OAuth client secret used for OAuth authentication performed by IAM during any API calls

2.4.3 Audit Trail Report

Use the Audit Trail Report to check user activities, including logins, added actions, their status, and associated machine names.

To generate an Audit Trail Report:

- 1. Log in to the Admin Console.
- 2. Go to System Configuration and click Audit Trail Report to access the Audit Trail Report page.
- 3. Enter the following values and click **Search** to generate the **Audit Trail Report** for all users or a specific user, to view a specific audit trail report.

Table 2-2 Audit Trail Report Filters

Field	Description
User Name	Enter or Search for a user name to view the report for the selected user.
Action	Select the Action from the list of actions to generate a report for a specific action.
From Date	Select the start date for the report.
To Date	Select the end date for the report.
Action Detail	Enter the string to search and filter the audit trail report for a specific action.

You can get the following details from an Audit Trail Report.

Table 2-3 Audit Trail Report Details

Field	Description
User Name	The user name selected in the User Name filter field.
Action Details	The action selected in the Action Detail filter field.
Action Code	The type of action performed by the user.
Status	The status of the action performed. The values are Successful or Failure .
Action Subtype	The sub type of the action.
Operatio n Time	The date and time of the action performed.

4. Click Reset to clear all values from the filter fields and enter new search criteria.



2.4.4 Configurations

Use the Configurations page to update the user preferences, master encryption key and the notification preferences.

You can set the user preferences such as time zone and locale, master encryption key and the notification configuration details using the **Configurations** page.

To update the configuration details from the System Configuration tab:

- 1. Click the **Configurations** tile, to view and edit the user preferences, master encryption key and the notification details.
- 2. Click the required tab and modify the details.
 - Preferences
 - Master Encryption Key
 - Notification Configuration

Preferences

Select the following details in the **Preferences** tab and click **Save** to update the details.

- Time Zone The time zone displayed in the application.
- Locale The language to access the application. The default value is en US English.
- Date Format The format in which the date is displayed.

Master Encryption Key

Enter the Master Encryption key and click Save to update the key value.

Notification Configuration

Enter the number of days after which the notification will be deleted automatically, and click **Save**.

2.4.5 Reports For Download

The Reports for Download tile in the Admin Console consists of a set of pre-defined and preconfigured reports that are available for download. You can use the functions in the interface such as filter and sort to segregate the data and drill down to the details of the reports. You can then investigate the information, analyze, and export the data in CSV format.

In the Admin Console, you can download reports from Reports for Download in the System Configuration tab.



2.4.5.1 Prerequisites

To use Reports for Download from the Admin Console, your user profile must be mapped to the Data Maintenance Admin group to access the Reports for Download menu.

2.4.5.2 Access Reports for Download

To access the Data View window, click **Reports for Download** in the **System Configuration** tab. The **Data Reporting - Data View Page** is displayed.

2.4.5.3 Data Reporting - Data View

You can view the list of reports available for download, from the Data Entry window. Use one of the following criteria to view various reports.

 To search reports, click the Search field to display the search criteria pop-up. Enter search terms in the Name, Description, or Created By fields, or use a combination of the fields, and click Search.

The search result displays reports that match the criteria.

 To sort reports, click the Sort By drop-down and select from the options: Name, Description, or Created By.

The reports are displayed in ascending order for the selected option.

- To view the report creation and modification details, click the More Options (three dots) icon of a report to display the pop-up with the details for the following:
 - Created By Displays the User ID of the user who created the report.
 - Created Date Displays the date and time of the creation of the report.
 - Last Modified By Displays the User ID of the user who last modified the report.
 - Last Modified Date Displays the date and time of the last modification of the report.
 - Authorizer Displays the User ID of the authorizer who approved the report to be displayed in the window.
 - Authorizer Comments Displays the comments entered by the authorizer when approving the report to be displayed in the window.
- To view a report, mouse over the record, and the hidden menu appears. Click View from the menu.

The details for the selected report are displayed in the Data Entry window.

2.4.5.4 View the Report Details

The Data Entry window is the interface where you can apply filter conditions (optional) on the reports and export the details.

You can apply the filter conditions (optional) to the reports in the Attributes Selection tab, and the results are displayed in the Data Preview tab from where you can export the report in the CSV format.

The procedure to view report details is described as follows:

In the Data View window, click Attributes Selection.
 The Attributes Selection tab displays the details for the database table name in View Name and the table columns in Attribute Name. Expand View Name to display the columns in Attribute Name.



Click Apply.

The Data Preview tab displays the report details. The number of records displayed in the Data Preview tab is pre-configured in the system. However, you can export the details in the CSV format by clicking Download CSV.

2.4.5.5 Apply a Custom Filter to the Data View

In addition to the reports that you can view, you can also use the filter provided in the Data View window to custom filter the data in the reports for analysis purposes.

To apply a custom filter to the data view, follow these steps:

- 1. Click **Launch Filter** Condition to display the Filter Condition window.
- 2. Select **AND** or **OR** from the drop-down.
- 3. Select the required report column from **Select a Column**.
- 4. Select the required condition from Select a Condition.
- Click + Condition to add more conditions and click + Group to add more groups.
 Repeat the selection procedure to add details. To remove a condition or group, click
- 6. Click **Apply** in the **Filter Condition** window to save the custom filter condition.
- 7. Click Apply in the Attributes Selection tab.

The Data Preview tab displays the results of the Attributes filtered in the Attributes Selection tab. The number of records displayed in the preview is pre-configured in the system. However, you can export the details in the CSV format by clicking Download CSV.

2.5 Identity Management

Remove.

Using Identity Management, administrators can manage fine-grained and coarse-grained entitlements. Coarse-grained entitlements consist of fewer functions than fine-grained entitlements. Authorizers can authorize the entitlement mappings.

The various **components** of Identity Management are:

- Users: A user is a person who has access to Admin Console and can perform specific
 actions based on the user group or groups they are mapped to. Before you can map a user
 to a user group, your Administrator must have created and authorized the user. After the
 user is authorized, they are added in the Users Summary. Click Users to access the
 Users Summary page.
- Groups: Groups are a set of users who can perform specific activities. For example, the
 administrator role performs administrative activities. Any user who belongs to a specific
 user group can access the roles mapped to that user group.
 To add a user group, click Add in the Groups tile. Click Groups to view the list of user
 groups in Groups Summary.
- Roles: Roles are a set of functions grouped together and having specific privileges. Any
 user who belongs to a specific role can access functions mapped to that role. Click Add to
 add a role or click Roles to view the list of roles in Roles Summary.
 To add a user role, click Add in the Roles tile. Click Roles to view the list of user groups in
 Roles Summary.
- **Folders**: Folders are used to control access rights on defined list of objects. They are mapped to a specific Information Domain. Click **Folders** to view the list of folders and edit the access rights in Folders Summary.



• **Functions**: Functions enable users to perform a specific activity. Any user who belongs to a specific function can access the folders mapped to the function. Click **Functions** to view the list of functions in Functions Summary.

✓ Note:

Only those user groups and roles which are authorized are displayed in the **Groups Summary** page and **Roles Summary** page, respectively.

2.5.1 Users Summary Page

The Users Summary page shows the list of available users. You can view the details of a user and map the user to one or more user groups.

To access the Users Summary page:

- Click Identity Management tab in the Admin Console page.
- 2. Click the Users tile to access the Users Summary page.
- 3. Select a specific user name in the **Users Summary** page and then click **Details** to view the associated **User ID** and **User Name**.
- Select a user name and click Mapped Groups to view the list of groups that are mapped to the particular user.

To map/unmap a user group, refer to Mapped and Unmapped Groups.

To search for a specific user, type the first few letters of the user name that you want to search in the Search box and click **Search**. The results will show users matching your input.

At the bottom of the page, adjust the number of entries displayed per page using the up and down arrows in the Records box. To navigate between pages in the View bar, use these buttons:

- First page to go to the first page.
- Previous page to go back.
- Next page to move to the next page.
- Last page to go to the last page.

You can directly navigate to a specific page by entering its number in the View bar and pressing **Enter**.

2.5.1.1 User Details

In the User Details, you'll find the User ID and User Name of the selected user from the User Summary page.

 Click a specific user listed in the User Summary page and then click Details to view the User ID and the User Name of that user.



2.5.1.2 Mapped/Unmapped Groups

As an Administrator, you can map/unmap a user to/from a user group from the **Users Summary** page.

To map/unmap a user to a user group:

- 1. Select the user name in the **Users Summary** page.
- Select Mapped Groups to access the list of groups mapped to the selected user.
- 3. To map a user group:
 - a. Click New Mapping.

The list of user groups you can map the user to appears in the **Available Groups** page.

b. Click Map.

A confirmation message is displayed after successful mapping. The mapping will be completed after authorization.

- 4. To unmap a user group:
 - Select the check box corresponding to a user group or click Select All to choose all available user groups.
 - b. Click Unmap.

A confirmation message will be displayed after successful unmapping. The unmapping will be completed after authorization.

- 5. After mapping/unmapping a user group, ensure to authorize it accordingly. To authorize a mapping/unmapping:
 - a. In Mapped Groups, select the user-user group mapping or unmapping that requires authorization.
 - b. Click Authorize/Reject to approve or cancel the mapping/unmapping request.

2.5.1.3 Available Groups

Click New Mapping to view the list of user groups you can map to the user.

To select a user group, select the check box corresponding to the user group. To select all user groups, click **Select All**.

2.5.2 Groups Summary Page

The Groups Summary page shows the list of available groups. You can view the details of a group and map the group to one or more user roles.

To access the Groups Summary page:

- Click the Identity Management tab in the Admin Console page.
- 2. Click the **Groups** tile, to access the **Groups Summary** page.
- Select a specific group name in the Groups Summary page and then click Details to view the associated Group ID, Group Name and Group Description.
- Select a group name and click Mapped Roles to view the list of roles that are mapped to the particular group.



To map/unmap roles, refer to mapped/unmapped roles.

To search for a specific user group, type the first few letters of the user group name that you want to search in the Search box and click **Search**. The results will show users matching your input.

At the bottom of the page, adjust the number of entries displayed per page using the up and down arrows in the Records box. Use the navigation buttons, to go to the first page, last page, previous page and next page. You can also directly navigate to a specific page by entering its number in the View bar and pressing **Enter**

2.5.2.1 Group Details

In the Group Details, you'll find the Group ID, Group Name, and Group Description of the selected user group.

 Click a specific group name listed in the Group Summary page and then click Details to view the Group ID, Group Name, and Group Description of that user group.

2.5.2.2 Mapped/Unmapped Roles

As an Administrator, you can map/unmap a role to/from a user group from the **Groups Summary** page.

To map/unmap roles to user groups:

- Select the user group in the Groups Summary page.
- 2. Select **Mapped Roles** to access the list of roles mapped to the user group.
- 3. To map roles to user groups:
 - a. Click New Mapping.

The list of user roles you can map the group to is displayed in the **Available Roles** page.

- **b.** Select the check box corresponding to a user role or click **Select All** to select all the available user roles.
- c. Click Map.

A confirmation message is displayed after successful mapping. The mapping will be completed after authorization.

- 4. To unmap roles from user groups:
 - a. Select the check box corresponding to a user role or click Select All to select all the available user roles.
 - b. Click Unmap.

A confirmation message is displayed after successful unmapping. The unmapping will be completed after authorization.

- 5. After mapping/unmapping a role, ensure to authorize it accordingly. To authorize a mapping/unmapping:
 - a. In **Mapped Roles**, select the role-user group mapping or unmapping that requires approval.
 - b. Click **Authorize/Reject** to approve or cancel the mapping/unmapping request.



2.5.2.3 Available Roles

Click New Mapping to view the list of roles you can map to the user group.

To select a role, select the check box corresponding to the role. To select all roles, select the check box marked **Select All**.

2.5.3 Roles Summary Page

The Roles Summary page shows the list of available user roles. You can view the details of a role and map the role to one or more user functions.

To access the Roles Summary page:

- Click the Identity Management tab in the Admin Console page.
- 2. Click the Roles tile, to view the Roles Summary page.
- 3. Select a specific role name in the **Roles Summary** page and then click **Details** to view the associated **Role Code**, **Role Name**, and **Role Details**.
- **4.** Select a role name and click **Mapped Functions** to view the list of functions that are mapped to the particular role.

You can also unmap a role from a specific function. To map/unmap functions, refer to mapped/unmapped functions.

To search for a specific role, type the first few letters of the role name that you want to search in the Search box and click **Search**.

At the bottom of the page, adjust the number of entries displayed per page using the up and down arrows in the Records box. To navigate between pages in the View bar, use these buttons:

- First page to go to the first page.
- Previous page to go back.
- Next page to move to the next page.
- Last page to go to the last page.

You can directly navigate to a specific page by entering its number in the View bar and pressing **Enter**.

2.5.3.1 Roles Details

Access Roles Details, to view the Role Code, Role Name, and Role Description of the selected role.

 Click a specific role listed in the Roles Summary page and then click Details to view the Role Code, Role Name, and Role Description of that role.

2.5.3.2 Mapped/Unmapped Functions

As an Administrator, you can map/unmap a role to/from a function user group from the **Roles Summary** page.

To map/unmap roles to functions:

1. Select the role name in the Roles Summary page.



- 2. Select **Mapped Functions** to access the list of functions mapped to the specific role.
- 3. To map roles to functions:
 - a. Click New Mapping.

The list of user functions you can map the role to appears in the **Available Functions** page.

- b. Select the check box corresponding to a function or click Select All to select all the available functions.
- c. Click Map.

A confirmation message is displayed after successful mapping. The mapping will be completed after authorization.

- 4. To unmap roles from functions
 - Select the check box corresponding to a function or click Select All to select all the available functions.
 - b. Click Unmap.

A confirmation message is displayed after successful unmapping. The unmapping will be completed after authorization.

- **5.** After mapping/unmapping a function, ensure to authorize it accordingly. To authorize a mapping/unmapping:
 - a. In **Mapped Functions**, select the role-function mapping or unmapping that requires approval.
 - b. Click Authorize/Reject to approve or cancel the mapping/unmapping request.

2.5.3.3 Available Functions

Click New Mapping to view the list of functions that you can map to a role.

To select a function, select the check box corresponding to the function. To select all functions, click **Select All**.

2.5.4 Functions Summary Page

The **Functions Summary** page shows the list of available functions. You can view the function details.

To access the **Functions Summary** page:

- Click the Identity Management tab in the Admin Console page.
- Click the Functions tile to access the Functions Summary page.
- 3. Select a specific function name in the Functions Summary page and then click **Details** to view the associated Function ID, Function Name, and Function Description.

To search for a specific function, type the first few letters of the function name that you want to search in the search box and click **Search**.

At the bottom of the page, adjust the number of entries displayed per page using the up and down arrows in the Records box. Use the navigation buttons, to go to the first page, last page, previous page and next page. You can also directly navigate to a specific page by entering its number in the View bar and pressing **Enter**.



2.5.4.1 Function Details

Using the Function Details options, you can view the Function ID, Function Name, and Function Description from the Functions Summary page.

 Click a specific function listed in the Functions Summary page and then click Details to view the Function ID, Function Name, and the Function Description of that function.

2.5.5 Folders Summary Page

Create multiple folders, store objects and assign access rights based on the security level of the user.

The **Folders Summary** page shows the list of available groups. You can view the details of a group and map the group to one or more user roles.

To access the **Folders Summary** page:

- 1. Click Identity Management tab in the Admin Console page.
- 2. Click the Folders tile to access the Folders Summary page.

The **Folders Summary** page is displayed.

Select a specific folder name in the **Folders Summary** page and then click **Details** to view the associated **Folder ID**, **Folder Name** and **Folder Type**. For more information refer to Folder Details

To search for a specific folder, type the first few letters of the folder name that you want to search in the search box and click **Search**.

At the bottom of the page, adjust the number of entries displayed per page using the up and down arrows in the Records box. Use the navigation buttons, to go to the first page, last page, previous page and next page. You can also directly navigate to a specific page by entering its number in the View bar and pressing **Enter**.

2.5.5.1 Folder Details

In the Folder Details, you'll find the Folder ID, Folder Name, and Folder Type of the selected folder from the Folders Summary page.

 Click a specific folder name listed in the Folders Summary page and then click Details to view the Folder ID, Folder Name, and Folder Type of that user.

2.5.5.2 Editing Folder Details

You can edit the Folder Type from the folder details page.

- 1. Click Edit on the Folder Details page.
- Set the Folder Type to one of the following options:
 - Public These folders are accessible to all users.
 - **Private** These folders can be viewed only by the users associated with that folder.
 - **Shared** These folders can be accessed by users mapped to specific user groups. These user groups are mapped to specific roles that are associated with the folder.



System Administration

This chapter covers the following topics:

- Users and Roles
- User Groups
- User Management
- Configuring Session Timeout

3.1 Managing Application Users

An application user can access the subscribed cloud services, based on the roles and groups assigned to them

An administrator can create application users using IAM. They can also batch import several users using a .CSV file.

After users are created, they are synced from IAM to the Cloud Service.

You can map the application users to existing groups based on the roles that they require and their access levels. The access level provided to an application user is based on the following:

- Groups: Groups are seeded (available out-of-the-box) by your cloud service.
 Administrators can also create new groups in IAM. After groups are created, they are synced from IAM to the cloud service. You can map the groups to roles using the subscribed cloud service.
- Roles: Roles are seeded by the cloud service. Administrators can also create new roles
 using the cloud service and assign existing functions to these new roles.
- Functions: Functions are seeded by the cloud Service. Administrators cannot create new functions; however, they can use the existing functions.

3.1.1 User Summary- Application Users

View the list of existing application users in the User Summary.

You can view the details of a user and map the user to one or more user groups.

- To view the User ID and Username of the selected User Select the Username in the User Summary page and select Details.
- To search for a specific User, type the first few letters of the required Username in the Search box and click Search.
- Using the navigation buttons at the bottom of the summary page, you can browse to the
 different pages. Also, you can enter the number of entries to be listed on a single page in
 the Records box or use the buttons to increase or decrease the number of entries.
- Enter the page number in the View Bar Control and jump to the required page.

3.1.2 Creating New Application Users

After you log in to the IAM console, the first task is to create additional user accounts.

You should assign specific user groups to the user accounts that you are creating. There are seeded user groups available with the respective services, users must be mapped to one or more of the user groups, depending on the role that they perform.

For example, you can create a user for each member of your team. Each member can then sign into the account with their credentials. You can also assign each user to specific user groups and apply specific security policies or roles to each group.

You can create the users and map the users to groups for your service. After creating the users, the users will receive a Welcome email. The users must activate their accounts and enter a new password to access the services.

To create users in the IAM Console:

- 1. In the IAM Console, select **Domains** (Identity domain) to view the list existing domains.
- 2. Click the required **Domain Name**, to access the **Domain Details** page.
- 3. In the left pane, click **Users** and select **Create user**, to proceed with the user creation.
- 4. Enter the following details:
 - First Name, Last Name and a valid Username and the Email ID.



- The username should be alphanumeric and cannot exceed 20 characters. You can enter only hyphen (-) and underscore (_) as special characters.
- Uncheck the Use the email address as the username check box, as you can only set the username as the login ID and currently setting the email address as the login ID is not supported.
- Select the user groups according to your user-specific groups or access, in the Groups (Optional).

Note:

After a user logs in to a specific cloud service, the user to user-group mapping created in the **IAM Console** will onboard into the master and mapping tables. Later, if you deselect (remove) a user from a group in **Assign User to Groups** after provisioning, ensure that you also unmap the user from the corresponding user-group in the **Admin Console**. This is a mandatory step to complete the unmapping process.

6. After entering the required information, click **Create** to create and add the new user to the User Summary.

You can also batch import several users using a .CSV file.



3.1.3 Creating a New User Group

Create groups to manage user access to applications and resources.

To create a user group:

- 1. In the IAM Console, click **Profile** and select **Identity Domain**.
- 2. In the Identity Domain left pane, click **Groups** and select **Create group**.
- 3. Enter the **Group Name** and the **Group Description**.
- Select User can request access, to allow users to request access to this group.
- 5. Check the check box adjacent to each user to add that user to the group.
- 6. Click **Create** to create the new user group with the selected users.

After creating the user group, you must assign various permissions to the group, using one of the following methods:

- Write at least one policy to give group permission to either the tenancy or a compartment.
 While writing the policy, specify the group using the unique group name or the group's OCID.
- Assign the group to an application.

3.1.4 Assign Groups to Users

Assign a specific group to a user, based on the roles required for the user.

Ensure to create a group, before assigning users to the group.

To map a user to a group using the IAM Console:

- 1. In the IAM Console, select **Domains** (Identity domain) to view the list existing domains.
- Click the required **Domain Name**, to access the **Domain Details** page.
- Click a specific User name to view the user details and assign a group to that particular user.
- 4. In the left pane, click **Groups** to access the list of groups associated with a user.
- 5. In the **Groups** pane, click **Assign User to Groups** to view the list of available groups.
- 6. Check the check box adjacent to each group, to assign the user to that group.
- 7. After selecting all the required Groups, click **Assign user**.

The user is assigned to the selected groups. You can access the list of groups associated with a user, in the respective **User Details** page.

To dissociate an user from a group, select the group and click $\bf Remove\ User\ from\ the\ Group.$



3.1.5 Bulk Import Application Users

As an administrator, you can batch import user accounts using a .CSV file.



Before importing the user accounts, create a .CSV file that is properly formatted for the import.

To import user accounts:

- In the IAM Console left pane, click Users and select More Actions and select Import Users.
- 2. Click Browse to locate and select the .csv file containing the user accounts to import.



Click **Download sample file** in the dialog box to download a sample file and perform the accounts upload.

Verify that the path and name of the selected .CSV is updated in the Select a file to import, and click Import.



Oracle IAM cannot import a user account if a mandatory value such as user's first name, last name, or username, is missing. In such cases, Oracle IAM will skip the incomplete account and proceed to the next account in the .csv file.

When Oracle IAM evaluates and imports the user accounts, the imported accounts are updated in the **Jobs**. You can also get information related to the successful/incomplete imports if the import was not completed due to system errors.

3.2 Managing User Groups

User groups are seeded (available out-of-the-box) by the cloud service. Groups are mapped to roles using the cloud service by the same user that was created using IAM.

Administrators can also create new groups in IAM. After groups are created, they are synced from IAM to the cloud service. You can map the groups to roles using the subscribed cloud service.

3.2.1 Map Application with the User Groups

After creating a group, you can map the required applications with the group.

To map the application to a user group, log in to IAM and follow these steps:

 Go to the Navigation menu in the enter the **Domains** in the Search bar to view the **Domains** list.

- Select the **Default Domain** and then from the LHS menu, select **Oracle Cloud Services**, to view the list of Cloud Services.
- Select the Cloud Services you are subscribed to (Syntax: <Cloud_service_name>xxxxprd and <Cloud_service_name>xxxx-nprd, where Description is mentioned as your registered cloud service).
- From the LHS menu, select Users and click Assign Users.
- Select the user and click Assign.

3.2.2 Map Users to Groups

Log in to IAM as an administrator, and map users to user groups.

To map a user to a user group:

- 1. Select the **User Name** in the **Users Summary**.
- 2. Select Mapped Groups.
- 3. Select the User Group Name.



To select a user group, select the check-box corresponding to the user group. To select all user groups displayed on the page, select the check-box marked **Select All**.

4. Click **New Mapping** to map the user to the selected user group.

Or

Click **Unmap** to remove the user group-role mapping.

If you need to authorize an unmap request, refer to Unmap User from Group.

Note:

User-group mapping changes from IAM will take some time to sync with your Cloud Service. If these changes are made during the active user session, then it will be reflected on the next login.

After a user signs into the cloud service, the user to user-group mapping created in the IAM Console will onboard into the master and mapping tables. If you unmap a user from a group in the Admin Console, navigate to the associated console and open **Assign User to Groups**. Deselect the user corresponding to the user group and click **Finish**. This is a mandatory step to complete the unmapping process.

For more information, refer to Unmap User from Group.

After you click **New Mapping**, the list of user groups you can map the user to appears in the **Available Groups Summary**.

Select a User Group.



Note:

If the logged-in user has both administration and authorization entitlements, an authorization view toggle button is available. Enable this button to complete the authorization.

6. Click Map.

Note:

If the logged-in user has both administration and authorization entitlements, an authorization view toggle button is available. Enable this button to complete the authorization.

3.2.3 Map Roles to User Group

You can map roles to a user group using Admin Console.

To map roles to the user group:

Before mapping the roles to an user group, ensure that the roles are created in the Admin console.

- From the Identity Management tab, Click Groups to access the Groups Management page.
- 2. Search for the specific group.
- 3. Click the User Group and click New Mapping under the Mapped Roles tab.
- Search for required role names created in Roles Management and click New Mapping to map each role.
- Log in as a user with the authorization role and authorize the mapped roles in the Authorization View.

A user group is created in the IAM Portal and is mapped to a role created in the Admin Console.

3.2.4 Unmap User from Groups

Unmap a user from a specific group to revoke the associated functions.

Log in to IAM as an administrator to authorize and unmap a user from a specific user group.

To authorize the unmapping of a user from a user group:

- 1. Click Unmapped Groups.
- 2. Click the **User Group Name** to select the User Group.
- 3. Click **Authorize** or **Reject** to approve or reject an unmapping request.

3.3 User Management

During implementation, you prepare your Oracle Application's Cloud Service for the Service Users. The decisions made during this phase determine how you manage users by default. Most of these decisions can be overridden. However, for efficient User Management, Oracle

recommends that you configure your environment to reflect both enterprise policy and support most or all users.

For more information, see the View List of Application Users and User Roles and Privileges.

3.3.1 Application Users

During implementation, you can use the Create User task to create Test Service Users. By default, this task creates a minimal person record and a user account. After implementation, you should use the Hire an Employee Task to create Service Users. The Create User Task is not recommended after the implementation is complete.

For more information, see Create Application Users.

3.3.2 User Roles and Privileges

Oracle Financial Services Profitability Analytics Cloud Service (PACS) Users are assigned roles through which they gain access to functions and data. Users can have any number of roles.

The following figure shows User Personas and the tasks they can perform:

Table 3-1 Top-Down Personas and Tasks

PACS BI Data Steward	PACS BI - Management /CXO/Org Head	PACS BI Application	PACS BI - Regional Manager
Create Users	Set Preferences	Manage PACS Data	View OOTB Reports for Management Reporting and Profitabilty Insights
Map Users to OOB User Groups	View OOTB Reports for Management Reporting	Create new reports if required of existing RPD	Set Preferences
Create User Groups and Roles	Create Watch Lists	Manage Dimensions	Create Watch Lists
Map Roles to User Group	Add comments on charts	Review Process Logs	Add comments on charts
Admin Privileges to all modules	Add tolerance limits for measures	Manage Set Up Configurations	Add tolerance limits for measures
Manage Runchart and Batches	Create custom charts	Review PACS data integrity	Create custom charts
		Create Mailing Lists	

Table 3-2 Bottom-Up Personas and Tasks

PACS BI Data Steward	PACS BI - Product Manager/Branch Manager	PACS BI Application Analyst	PACS BI - Regional Manager
Create Users	Set Preferences	Manage PACS Data	View OOTB Reports for Management Reporting and Profitabilty Insights
Map Users to OOB User Groups	View OOTB Reports for Management Reporting	Create new reports if required of existing RPD	Set Preferences
Create User Groups and Roles	Create Watch Lists	Manage Dimensions	Create Watch Lists



Table 3-2 (Cont.) Bottom-Up Personas and Tasks

PACS BI Data Steward	PACS BI - Product Manager/Branch Manager	PACS BI Application Analyst	PACS BI - Regional Manager
Map Roles to User Group	Add comments on charts	Review Process Logs	Add comments on charts
Admin Privileges to all modules	Add tolerance limits for measures	Manage Set Up Configurations	Add tolerance limits for measures
Manage Runchart and Batches	Create custom charts	Review PACS data integrity	Create custom charts
		Create Mailing Lists	

Note:

- User-Group mapping changes from IAM will take five minutes to sync with the application. If these changes are made during the active user session then it will be reflected on the next login.
- You can create and manage Application users as required. For example, you can map the Pipeline Admin Group and PACS Admin Group to one user.

3.3.2.1 Role Based Access Control

Role-based security in Oracle Financial Services Profitability Analytics Cloud Service Controls who can do what and to which data.

The following table provides examples of role-based access.

Table 3-3 Role Based Access Control

Role Assigned to a User	Functions which Users with this Role can Perform	Set of Data which Users with the Role can Access when performing the Function
Application Administrators	Manage RPD and Dimensions across reports along with Set Up Configurations. Manage data integrity and mailing lists.	Reports and RPD's associated with Top Down (Management Reporting) and Bottom Up (Profitability Insight and Customer Profitability reports). SetUp Configurations and SQL Query Browser
Business Users	Access to the Application to review reports. Access to Set Up Configurations UI's	Reports and RPD's associated with Top Down (Management Reporting) and Bottom Up (Profitability Insight and Customer Profitability reports).
Data Steward	Perform Application Administrator and data and dataflow Management activities	User Group with Business Tasks' Roles across all Service Features. Batch Management and Monitoring



3.3.2.2 User Roles and Activities

The following User Roles are seeded in the PBSM Cloud Service to facilitate the activities expected from the users mapped to the seeded User Groups:

- PACS BI TD Management/CXO
- PACS BI TD Regional Manager
- PACS BI TD Org Head
- PACS BI TD Application Analyst
- PACS BI TD Data Steward
- PACS BI BU Regional Manager
- PACS BI BU Branch Manager
- PACS BI BU Product Manager
- PACS BI BU Application Analyst
- PACS BI BU Data Steward

The user roles Profitability Analytics Application Analyst and Profitability Analytics Data Steward are required to access the main application for view, edit and other purposes, based on the User Persona accessing the same. An Analyst User Persona can view all PA Reports and edit RPD elements and create custom reports. Similarly, a Data Steward Persona can view and edit all PA Admin Screens along with screens relevant to batch scheduling monitoring and execution.

The Business User Roles like Management/ CXO/ Org Head/ Regional Manager/ Product Manager/ Branch Manager - are seeded BI Roles to be used for the users to access all the Analytics Menu, along with DV features along with all reporting in the PA Application.

Overall, these ten roles are created to facilitate Analytics access for five different types of User Persona. These roles can be mapped to any User Group to provide the Analytics access to users under the User Group.

3.3.2.3 User Groups

The following table lists the User Groups and the access privileges.

Table 3-4 Top Down Persona User Groups List

Top Down Persona	User Access Type	IAM UG CODE	Analytics Application Role
PACS BI TD – Management/CXO	R	UGPATDCXO	DV Consumer
PACS BI TD – Regional Manager	R	UGPATDRM	DV Consumer
PACS BI TD - Org Head	R	UGPATDHEAD	DV Consumer
PACS BI TD – Application Analyst	R/W	UGPATDAAN	DV Content Author
PACS BI TD – Data Steward	R/W	UGPATDADMIN	DV Content Author



Table 3-5 Bottom Up Persona User Groups List

Bottom Up Persona	User Access Type	IAM UG CODE	Analytics Application Role
PACS BI BU – Regional Manager	R	UGPABURM	DV Consumer
PACS BI BU -Branch Manager	R	UGPABUBM	DV Consumer
PACS BI BU -Product Manager	R	UGPABUPM	DV Consumer
PACS BI BU – Application Analyst	R/W	UGPABUAAN	DV Content Author
PACS BI BU – Data Steward	R/W	UGPABUADMIN	DV Content Author

3.3.2.4 Analytics Menu Access Privileges

Table 3-6 Analytics Menu Access Privileges

Level 1-Menu	Level 2-Menu	Level 3-Menu	Level 4-Menu	Rej	nagement porting sona	Ins	ofitability ights rsona
Profitability Analytics Cloud Service	Analytics	BI Home Page		•	PACS BI TD - Manageme nt/ CXO PACS BI TD - Regional Manager PACS BI TD - Org Head PACS BI TD - Application Analyst PACS BI TD - Data Steward	•	PACS BI BU - Regional Manager PACS BI BU - Branch Manager PACS BI BU - Product Manager PACS BI BU - Product Manager PACS BI BU - Application Analyst PACS BI BU - Data Steward
		SQL Query Browser		•	PACS BI TD - Application Analyst PACS BI TD - Data Steward	•	PACS BI BU - Application Analyst PACS BI BU - Data Steward

Table 3-6 (Cont.) Analytics Menu Access Privileges

Level 1-Menu	Level 2-Menu	Level 3-Menu	Level 4-Menu	Rep	nagement porting sona	Ins	ofitability ights rsona
		Operational Analysis	Dimensions Registry	•	PACS BI TD - Application Analyst PACS BI TD - Data Steward	•	PACS BI BU - Application Analyst PACS BI BU - Data Steward
			Currency Rates	•	PACS BI TD - Application Analyst PACS BI TD - Data Steward	•	PACS BI BU - Application Analyst PACS BI BU - Data Steward
			Data Quality Checks	•	PACS BI TD - Application Analyst PACS BI TD - Data Steward	•	PACS BI BU - Application Analyst PACS BI BU - Data Steward
			Segment Registry	•	PACS BI TD - Application Analyst PACS BI TD - Data Steward	•	PACS BI BU - Application Analyst PACS BI BU - Data Steward
			File Uploads	•	PACS BI TD - Application Analyst PACS BI	•	PACS BI BU - Application Analyst PACS BI
					TD - Data Steward		BU - Data Steward
			Groups and Roles	•	PACS BI TD - Application Analyst PACS BI	•	PACS BI BU - Application Analyst PACS BI
				ŭ	TD - Data Steward	-	BU - Data Steward



Table 3-6 (Cont.) Analytics Menu Access Privileges

Level 1-Menu	Level 2-Menu	Level 3-Menu	Level 4-Menu	Rep	nagement porting rsona	Ins	ofitability sights rsona
		Management Reporting		•	PACS BI TD - Manageme nt/ CXO PACS BI TD - Regional Manager PACS BI TD - Org Head PACS BI TD - Application Analyst PACS BI TD - Data Steward	•	PACS BI BU - Regional Manager PACS BI BU - Data Steward
		Profitability Insights		•	PACS BI TD - Manageme nt/ CXO PACS BI TD - Regional Manager PACS BI TD - Data Steward	•	PACS BI BU - Regional Manager PACS BI BU - Branch Manager PACS BI BU - Product Manager PACS BI BU - Application Analyst PACS BI BU - Data Steward



Table 3-6 (Cont.) Analytics Menu Access Privileges

Level 1-Menu	Level 2-Menu	Level 3-Menu	Level 4-Menu	Rep	nagement porting sona	Ins	ofitability sights rsona
		Customer Profitability		•	PACS BI TD - Manageme nt/ CXO PACS BI TD - Regional Manager PACS BI TD - Data Steward	•	PACS BI BU - Regional Manager PACS BI BU - Branch Manager PACS BI BU - Product Manager PACS BI BU - Application Analyst PACS BI BU - Data Steward
		Geography Profitability		•	PACS BI TD - Manageme nt/ CXO PACS BI TD - Regional Manager PACS BI TD - Data Steward	•	PACS BI BU - Regional Manager PACS BI BU - Branch Manager PACS BI BU - Product Manager PACS BI BU - Product Manager PACS BI BU - Application Analyst PACS BI BU - Data Steward



Table 3-6 (Cont.) Analytics Menu Access Privileges

Level 1-Menu	Level 2-Menu	Level 3-Menu	Level 4-Menu	Rep	nagement orting sona	Ins	ofitability ights rsona
		Custom Metrics			PACS BI TD - Manageme nt/ CXO PACS BI TD - Regional Manager PACS BI TD - Org Head PACS BI TD - Application Analyst PACS BI TD - Data Steward	•	PACS BI BU - Regional Manager PACS BI BU - Branch Manager PACS BI BU - Product Manager PACS BI BU - Application Analyst PACS BI BU - Data Steward

3.3.2.5 Application Menu Access Privileges

Table 3-7 Application Menu Access Privileges

Level 1 Menu	Level 2 Menu	Level 3 Menu	Re	nagement porting rsona		ofitability ights Persona
Profitability Analytics Cloud Service	Operations And Processes		•	PACS BI TD - Application Analyst PACS BI TD - Data Steward	•	PACS BI BU - Application Analyst PACS BI BU - Data Steward
	Dimension Management		•	PACS BI TD - Application Analyst PACS BI TD - Data Steward	•	PACS BI BU - Application Analyst PACS BI BU - Data Steward
	Setup Configurations	Application Preferences	•	PACS BI TD - Application Analyst PACS BI TD - Data Steward	•	PACS BI BU - Application Analyst PACS BI BU - Data Steward
		Batch Parameters	•	PACS BI TD - Application Analyst PACS BI TD - Data Steward	•	PACS BI BU - Application Analyst PACS BI BU - Data Steward

Table 3-7 (Cont.) Application Menu Access Privileges

Level 1 Menu	Level 2 Menu	Level 3 Menu	Rep	nagement oorting sona		ofitability ights Persona
		Financial Element Mapping	NA		•	PACS BI BU - Regional Manager PACS BI BU - Branch Manager PACS BI BU - Product Manager PACS BI BU - Application Analyst PACS BI BU - Data Steward
		Segmentation Mapping	NA		•	PACS BI BU - Regional Manager PACS BI BU - Branch Manager PACS BI BU - Product Manager PACS BI BU - Application Analyst PACS BI BU - Data Steward
		Line Item Display Order	•	PACS BI TD - Application Analyst PACS BI TD - Data Steward	•	PACS BI BU - Application Analyst PACS BI BU - Data Steward
		Geography Mapping	NA		•	PACS BI BU - Regional Manager PACS BI BU - Branch Manager PACS BI BU - Product Manager PACS BI BU - Application Analyst PACS BI BU - Data Steward

Table 3-7 (Cont.) Application Menu Access Privileges

Level 1 Menu	Level 2 Menu	Level 3 Menu	Management Reporting Persona	Profitability Insights Persona	
		Metric Generator	 PACS BI TD - Application Analyst PACS BI TD - Data Steward 	 PACS BI BU - Application Analyst PACS BI BU - Data Steward 	
	Data Management Tools	Balance Reconciliation	 PACS BI TD - Application Analyst PACS BI TD - Data Steward 	 PACS BI BU - Application Analyst PACS BI BU - Data Steward 	
		Data Verification	 PACS BI TD - Application Analyst PACS BI TD - Data Steward 	 PACS BI BU - Application Analyst PACS BI BU - Data Steward 	



4

Dimension Management

Dimension Management facilitates you to categorize data into a single object as a Member; define levels and aggregate data to form the Hierarchies, and distinguish each member by defining the required Attributes.

The roles mapped to Dimension Management are as follows:

- Dimension Advanced
- Dimension Authorization
- Dimension Read Only
- Dimension Write

4.1 Object Security

Object Security helps to secure data and also to decide what each user can access. You can apply Object Security to various object definitions like Hierarchy definitions, Filters, Expressions and Migration definitions.

You can assign specific user roles and functions to user groups, to implement Object Security. To assign user roles and functions, Seeded User Groups and Seeded User Roles are mapped to the User Groups. If you are using the Seeded User Groups, the security to access objects depends on the associated User Groups.

Map your User Group to the folder in case of public or shared folder, for creating/editing/copying/removing an object in Dimension Management module. You should also be the owner of the folder in case of Private Folder. Additionally, the WRITE role should be mapped to your User Group.

To access the link and the Summary page, map your User Group to ACCESS role. You can view all objects created in Public Folders - Shared Folders to which you are mapped and Private Folders for which you are the owner.

4.2 Components of Dimension Management

You can create and manage the following Object Definitions using from Dimension Management:

- Members
- Attributes
- Hierarchy

4.3 Members

Dimension Members refer to the individual items that constitute a dimension when data is categorized into a single object such as Product, Organization, Time, and so on. Members are available within Dimension Management section.

4.3.1 Member Summary Page

The list of created member definitions are displayed in the Member Summary.

To access the member summary page:

- 1. From the left menu, click Reference Data.
- 2. Select **Dimension Management** and select **Member**.

The **Member Summary page** containing the following details is displayed.

- **Alphanumeric Code** The alphanumeric code assigned to a member.
- Numeric Code- The numeric code assigned to a member.
- Name- The unique member name.
- Is Leaf- The leaf node status of the member definition.
 - Yes- The member is set as a leaf node in any hierarchy and Child cannot be added to this node.
 - No- The member is a not a leaf and can have child nodes.
- Enabled The status of the member definition (Yes/No).
- Action- Click to view, edit, copy or delete a member definition. You can also access the list of objects dependent on this definition.

To filter the summary based on specific search criteria, select and add the required search criteria to the **Search** field and enter/select the specific values. Use **More Filters** to add additional search criteria.



Dimension is a default and mandatory search filter. Select the dimension to access the member definitions available in that dimension. By default the first dimension from the **Dimensions** list is added as the search entry.

4.3.2 Creating Member Definitions

You can add new Member Definitions from the Member Summary page.

To create a member definition:

- To create a member definition, click the Add in the Member Summary page, to access the Member Details page.
- Enter the following Member Details :
 - **Dimension** Select the dimension to be associated with the new Member.
 - **Numeric Code** The numeric code to be assigned to the new member definition. You can enter the value between 0 and 999,999,999 manually or click **Generate**, to autogenerate a unique code.
 - If you enter the value manually, it is assigned after validation.
 - Alphanumeric Field Value- The alphanumeric Code to be assigned to the new Member Definition.
 - You can enter up to 100 characters and enter only Underscore ("_") as a special character.



- Name- The unique member definition name.

 You can enter up to 100 characters. All characters are allowed except " & ' and " ' ".
- Description- A brief description about the member definition.
 You can enter up to 100 characters. All characters are allowed except " & ' and " ' ".
- Is Leaf- Check this option if the member is a leaf of another member. By default, it is set to Yes.
 - Yes- The member can be used as a leaf node in any hierarchy and child cannot be added to this node.
 - No-The member is not set as a leaf and can have child nodes.



If a member is set as a non-leaf and is associated with child nodes, it cannot be set as a leaf again.

 Enabled- This field is set to Yes by default. You can modify the Enabled status, after creating the member. To edit a member, refer Editing Member Definition Details.



You can change the option to **No** only when the particular member is not used in any hierarchy. The disabled members will not be displayed in Hierarchy Rules, or utilities which are based on Hierarchies, such as Hierarchy Filters and Hierarchical Assumption Browsers used in applications.

- 3. Click Apply.
- (Optional). Click Copy Attribute Assignment, to attach an existing attribute to this new member definition.

You can also set the attribute values for a new member definition, manually. Enter/select the attribute values in the **Member Attributes** pane. All the attributes associated with the selected dimension are displayed in the Member Attributes pane.

- Locate the Attribute to be copied and click Move and select Copy, located under Actions.
- 6. Click Save, to create the new Member definition and view it the Member Summary.
 Click Actions and select Edit Member Details to edit the member details or select Save and Add New, to create the new member definition and proceed with adding another definition.

4.3.3 Managing Member Definitions

You can View, Edit, Copy, and Delete the existing Member Definitions from the Member Summary page.

In the members summary page, highlight a specific Member Definition and click the **Action**. The following Options are displayed:

- View- View the Member Details for a specific Member Definition.
- Edit- Edit the Member Details for a specific Member Definition.



- Copy- Copy the Member Definition Details and create another Member Definition by changing Alphanumeric Code, Numeric Code and Name.
- Delete- Delete the member definition.
- Check Dependency View the list of objects dependent on this definition.

4.3.3.1 Viewing Member Definition Details

You can view the details of an individual Member Definition, from Member Summary page.

To view a Member Definition, the Read Only Role should be mapped to your User Group.

You can view the details of an individual Member Definition, using the following procedure:

- 1. Highlight the Member Definition and click the **Action**.
- 2. Click the View button.

The Member Definition page is displayed with the details Dimension, Alphanumeric Code, Numeric Code, Name, Is Leaf and Enabled status.

4.3.3.2 Editing Member Definition Details

To edit the existing Member Definition details, the Write role should be mapped to your User Group.

You can edit individual Member Definition Details, using the following procedure:

- 1. Highlight the Member Definition and click the **Action**.
- 2. Click the Edit button.

The Member Definition page is displayed with the details Dimension, Alphanumeric Code, Numeric Code, Name, Is Leaf and Enabled status.

Edit the required information and click Save.

4.3.3.3 Copying Member Definition Details

To copy the Member Definition Details, the Write role should be mapped to your User Group.

You can copy individual Member Definition Details, to recreate another new Member Definition, using the following procedure:

- 1. Highlight the Member Definition and click the **Action**.
- 2. Click the **Copy** button.

The **Member Definition Page** is displayed with the details Dimension, Alphanumeric Code, Numeric Code, Name, Is Leaf and Enabled status.

Edit the unique information such as Name, Alphanumeric Code, Numeric Code and click **Save**.

4.3.3.4 Deleting Member Definition Details

To delete a Member Definition, the Write role should be mapped to your User Group.

You can delete individual Member Definition Details, using the following procedure:

- 1. Highlight the Member Definition and click the **Action**.
- Click the **Delete** button.



The Member Definition is deleted after confirmation.

4.4 Attributes

Attributes refers to the distinguished properties or qualifiers that describes a Dimension Member. Attributes are applicable to key dimensions only.

4.4.1 Attribute Summary Page

The list of created attribute definitions are displayed in the Attribute Summary.

To access the attribute summary page:

- 1. From the left menu, click Common Object Maintenance.
- Select Dimension Management and select Attribute, to access the The Attribute Summary Page .

The Attribute Summary Page provides the list of attribute Definitions with the following details:

- Code The Numeric Code assigned to the Attribute Definition.
- Name The unique Attribute Definition Name.
- **Data Type** The Data Type associated with the attribute. The Data Type is set to Date, Dimension, Number or String.
- Required Select Yes or No to make this attribute a mandatory value for the associated dimension.
- Seeded Select Yes, if the attribute is seeded by the service or No if the attribute is created by the user.
- **Action** Click to view, edit, copy or delete an attribute definition. You can also access the list of objects dependent on this definition.

To filter the summary based on specific search criteria, select and add the required search criteria to the **Search** field and enter/select the specific values.



Dimension is a default and mandatory search filter. Select the dimension to access the member definitions available in that dimension. By default the first dimension from the **Dimensions** list is added as the search entry.

4.4.1.1 Navigating Attribute Summary Page

To access records in a Summary page, you can search, sort and navigate to multiple pages.

4.4.2 Creating Attribute Definition

To create a new Attribute for a dimension, complete the following steps:

- Click the Add in the Attribute Summary Page.
 - The **Add Attribute Definition** Page is displayed.
- Enter the following Attribute Details :



- Dimension Select the Dimension for which the new Attribute is getting created.
- Numeric Code The Numeric Code to be assigned to the new Attribute Definition.
 You can enter any number between 0 and 999,999,999, or click Generate Code, to
 auto-generate a unique code. If you enter the value manually, the system will verify if
 the value is unique and assigns it.
- Name The unique Attribute Definition Name. You can enter up to 100 characters. All characters are allowed except " & ' and " ' ".
- Alphanumeric Field Value The name of physical column name that will be used to store attribute value in the Report Dimension Table. You can enter up to 100 characters. We recommend using only Underscore ("_") as a special character.
- Description A brief description about the Attribute Definition. You can enter up to 100 characters. All characters are allowed except " & ' + @ and ~.
- 3. Click **Apply**, to proceed to the **Attribute Properties** page.
- 4. Enter the following Attribute Properties:
 - Data Type Set the Data Type as Date, Dimension, Number, or String from the dropdown list.



If the data type is **Number**, enter a Scale value >= 0. If it equal to 0, only Integers are enabled. To enable decimal entries, the maximum Scale Value must be > 0 and <= the scale defined for NUMBER in the dimension's underlying attribute table. The maximum value of the NUMBER is set to 22.

- **Dimension** (Enabled only for Dimension data type.) Select the Dimension to be associated with the new Attribute Definition.
- Default Value The default value is set based on the selected data type. The
 Maximum characters allowed in Default Value field for String Data Type is 1000. The
 default value is mandatory if this attribute is set as a required attribute.

Table 4-1 Data Type and Default Values

Data Type	Default Value
Dimension	Select the Default Value from the drop-down list of members mapped to the selected Dimension
Number	Enter a Numeric Value based on the define Scale.
Date	Set a valid date.
String	Enter the Alphanumeric Value

- **Required Attribute** Select **Yes**, if this attribute is mandatory for the associated dimension members. To set it as an optional attribute, select **No**.
- **Seeded Value** Select **Yes**, only when the attribute is seeded out of box by the Cloud Service. For a new attribute, select **No**.
- **5.** After entering the required information, click **Save**, to create a new attribute.

4.4.3 Managing Attribute Definitions

You can view, edit, copy and delete the existing Attribute Definitions from the Summary Page.



In the Attribute Summary Page, highlight a specific Attribute Definition and click the **Action**. The following Options are displayed.

- View- View the Attribute Details for a specific attribute definition.
- Edit- Edit the Attribute Details for a specific attribute definition.
- **Copy** Copy the definition details and create another attribute Definition by changing the Alphanumeric Code, Numeric Code and Name.
- Delete- Delete the Attribute definition.
- Check Dependency View the list of objects dependent on this definition.

Field Description	
View	View the details for a selected Attribute.
Edit	Edit theselected Attribute.
Сору	Copy the Attribute Definition Details and create another Attribute Definition by changing the unique values like Alphanumeric Field Value, Numeric Code and Name.
Delete	Delete the selected Attribute.

4.4.3.1 Viewing Attribute Definition

You can view individual Attribute Definition Details at any given point. The Read Only role should be mapped to your User Group.

To view the existing Attribute Definition details in the Attribute page:

- 1. Highlight the Attribute Definition and click Action.
- 2. Click View .

The **Attribute Definition** Page is displayed with the details Code, Name, Data Type, Required and Seeded status.

4.4.3.2 Modifying Attribute Definition

Modify the Name, Description, or Default Value fields of an Attribute Definition. The Write role should be mapped to your User Group.

To modify an existing Attribute Definition in the Attributes summary:

- 1. Highlight the Attribute Definition and click **Action**.
- Click Edit, to access the Attribute Definition page.

Edit the required information and click **Save**. You can view the updates in the Attributes summary.

4.4.3.3 Copying Attribute Definition

The Copy Attribute Definition facilitates you to quickly create a new Attribute Definition based on the existing attributes or by updating the values of the required attributes.

To copy an existing Attribute Definition, the Write role should be mapped to your User Group. Refer to the following steps, to copy an Attribute Definition.

1. Highlight the Attribute Definition and click **Action**.



2. Click Copy.

The Attribute Definition page is displayed with the details: Code, Name, Data Type, Required and Seeded status.

Edit the unique information such as Name, Alphanumeric Field Value, Numeric Code and click **Save**.

4.4.3.4 Deleting Attribute Definition

You can remove the Attribute Definitions which are not required in the system by deleting from the Attributes Summary.

To delete an attribute definition, the Write role should be mapped to your User Group.

- 1. Highlight the Attribute Definition and click the **Menu** button.
- 2. Click the Delete button.

The Attribute Definition is deleted after confirmation.



You cannot delete a definition if any dependency like Attribute, Hierarchy or Filter is attached to it. Detach the dependency before deleting the definition.

4.4.4 Dimensions and Associated Attributes

Dimensions and the associated attributes.

The following tables lists the seeded attributes with the details, associated with each dimension.

Table 4-2 Dimensions and Associated Seeded Attributes

Attribute Name	Data Type	Mandatory	
Dimension - Common Chart of Accounts			
Account Type	Dimension	Yes	
Accrual Basis	Dimension	No	
Rollup Signage	Dimension	Yes	
Dimension - Financial Element			
Weighting Financial Element	Dimension	No	
Account Type	Dimension	Yes	
Column Property	Dimension	Yes	
Rollup Signage	Dimension	Yes	
Dimension - General Ledger Account			
Accrual Basis	Dimension	No	
Common Chart of Accounts	Dimension	Yes	
Rollup Signage	Dimension	Yes	
Account Type	Dimension	Yes	
Reconciliation Product	Dimension	Yes	
Dimension - Legal Entity			



Table 4-2 (Cont.) Dimensions and Associated Seeded Attributes

Attribute Name	Data Type	Mandatory
Rate Data Source	Dimension	Yes
Group Company Party	String	Yes
Dimension - Organizational Ur	nit	
Offset Organizational Unit	Dimension	No
Dimension - Product		
Accrual Basis	Dimension	No
Common Chart of Accounts	Dimension	Yes
Rollup Signage	Dimension	Yes
Account Type	Dimension	Yes
Amenability Rate	Dimension	Yes
Interest Rate Sensitivity	Dimension	Yes
Product Time Value	Number	Yes
Product Time Value	Number	Yes

4.5 Hierarchy

Hierarchies refer to Dimension Members that are arranged in levels, with each level representing the aggregated total of the data from the level below. One dimension type can have multiple hierarchies associated with it. Hierarchies are available within the Dimension Management section.

A Default Hierarchy definition is required to support BI Users to perform multidimensional analysis, in the BI reporting. The hierarchy name of a default hierarchy definitions are suffixed with the term **System Hierarchy**. You can only view the details of the default hierarchy, from the Hierarchy Summary page. All orphan members under their corresponding default hierarchy, are automatically updated, when they are added/deleted to/from the system.

4.5.1 Hierarchies Summary Page

The list of existing hierarchy definitions is displayed in the Hierarchies Summary page.

To access the hierarchies summary page:

- 1. From the left menu, click Reference Data.
- Click Dimension Management and select Hierarchies, to access the Hierarchies Summary page containing a list of existing hierarchies with the following details:
 - Name The unique Hierarchy Name.



The name of a default hierarchy is always suffixed with the term **System Hierarchy**.

- Folder Folder in which the hierarchy is stored.
- Dimension Dimension associated with the hierarchy.
- Tags Labels to simplify the data search and locate the required details.

• **Action** - Click to view, edit, copy or delete a hierarchy definition. You can also access the list of objects dependent on this definition.

4.5.1.1 Navigating Hierarchy Summary Page

To access records in a Summary page, you can search, sort and navigate to multiple pages.

4.5.2 Creating Hierarchy Definitions

To create a Hierarchy Definition in the Hierarchy Summary page, complete the following steps:

- 1. Click Add in the Hierarchy Summary page. The Hierarchy Definition page is displayed.
- 2. Enter the **Hierarchy Details** as described in the following table:

Table 4-3 Field Description

Field	Description		
Name	The unique Hierarchy Definition Name.		
	Note: You can enter up to 100 characters. All characters are allowed except " & ' and " ' ".		
Description	A brief description about the Hierarchy Definition.		
	Note: You can enter up to 100 characters. All characters are allowed except " & ' + @ and ~.		
Folder	Select the Folder in which the Hierarchy is to be stored.		
Dimensions	Select the Dimension to be associated with the new Hierarchy Definition.		
Click Apply.			
Hierarchy View	The Members associated with the selected Dimension are displayed.		
	You can sort this list in Ascending/Descending order, expand or collapse the list to view in details and search for a specific Member.		
	You can focus on a Member to view the Member Properties.		
	You can add a Child or add a Sibling to an existing Member in the data grid.		
Search View	The search results based on the specific keyword entered to search a Member is populated.		



To Add a Child to the Hierarchy:

- a. Right-click in the **Hierarchy View** tab.
- b. Select Add Child option and the Add Members page is displayed.
- c. Select the required Member and click Move Right, to move the Member to the Selected Members panel. To select multiple members, press CTRL and select the members.

The selected members are added to the **Selected Members** pane.

- Click Move All Right to move all members listed in the Available Members pane, to the Selected Members pane. Click Fetch from DB to select all nodes/ members in the server.
- Select a member and click Move Left to deselect a Member. To remove multiple members, press CTRL and select the members.
- To remove all the members from the Selected Members pane, click Move All Left.
- You can click Search button for the required member using Alphanumeric Code, Numeric Code, Name, Description, Attribute Name, or Attribute Value. Enter the search criteria and Click Search, in the Search Panel.
- You can also click Search button to toggle the display of Numeric Code left, right, or name and click button to display Alphanumeric Code left, right, or name.
- d. Click Add. The selected member is displayed as child under data grid panel in the Hierarchy View tab.

3. To add a Sibling to the Child in the Hierarchy Definition:

- Right-click on the Child and select the option Add Sibling.
 The Add Sibling Page is displayed.
- b. Select the required Members and Move Right, to move the Member to the Selected Members panel.
 - The Member is displayed in the **Selected Members** panel.
- c. Click Add. The selected Member is added as Sibling below the Parent under data grid Panel in the Hierarchy View tab.

4. To add a Leaf under a Parent/Child or Sibling:

- a. Right-click the Parent or Child and select Add Leaf. The Add Member Page is displayed.
- b. Select the required Members and click Move Right, to move the Member to the Selected Members panel.
 - The Member is displayed in the **Selected Members** panel.
- c. Click Add. The selected Member is displayed as Leaf below the Parent or Sibling under Show Hierarchy Panel in the Hierarchy View tab.

5. To cut and paste Child or Sibling:

- a. Right-click on any node and select Cut.
- b. Right-click on any node and Paste as Child or Paste as Sibling.

6. To Delete/Undelete

- Right-click on the node to be deleted and select **Delete Node**.
 The node deleted is struck out.
- **b.** Right-click and select **UnDelete** to cancel deletion of the node.



- To view the Member Properties and Member Attributes of a node in the Hierarchy View Panel:
 - a. Click on a Member.

The properties such as Alphanumeric Code, Numeric Code, Name, Description, Enabled, Is Leaf, Created By, Creation Date, Last Modified By, Last Modification Date, Attribute, and Value of the selected Member are displayed in the Member Properties and Member Attributes Grids.

In the Hierarchies page you can also:

- Click Collapse or Expand, to collapse or expand a branch.
- Click Focus or Unfocus, to focus or unfocus a selected node except the Root Node.
- Click **Sort** to sort the list in ascending or descending order.
- 8. Click Save.

The new Hierarchy Definition is created successfully.

4.5.2.1 Audit Info

The Audit Info section provides details such as Created By and Modified By Users, Creation and Modification Date, and Authorized By user Details. You can add additional information as comments and tags. Tags are labels that help to simplify the data search and locate the required details.

4.5.3 Managing Hierarchy Definitions

You can View, Edit, Copy, and Delete the existing Hierarchy Definitions from the Hierarchy Summary page.

In the Hierarchy Summary page, highlight a specific Hierarchy Definition and click **Action**. The following options are displayed:

- View View the hierarchy details for a specific definition.
- Edit Edit the hierarchy details for a specific definition.
- **Copy** Copy the hierarchy details and create another definition by changing the unique values like name, description and so on.
- Delete Delete the hierarchy definition.
- Check Dependency View the list of objects dependent on this definition.

4.5.3.1 Viewing Hierarchy Definition Details

You can view the details of an individual Hierarchy Definition, using the following procedure:

- 1. Highlight the Hierarchy Definition and click Action (three dots).
- 2. Click View.

The Hierarchy Definition page is displayed with the details Name, Description, Folder, Dimension, Start Date and Hierarchy View details.



4.5.3.2 Editing Hierarchy Definition Details

You can edit individual Hierarchy Definition Details at any given point.

To edit the existing Hierarchy Definition Details:

- Highlight the Hierarchy Definition and click the Action (three dots).
- 2. Click Edit.

The Hierarchy Definition Page is displayed with the details Name, Description, Folder, Dimension, Start Date and Hierarchy View details.

Edit the required information and click Save.

4.5.3.3 Copying Hierarchy Definition Details

You can copy individual Hierarchy Definition Details, to recreate another new Member Definition. To copy the Member Definition Details:

- Highlight the Hierarchy Definition and click Action.
- Click Copy.

The Hierarchy Definition page is displayed with the details Name, Description, Folder, Dimension, Start Date and Hierarchy View details.

Edit the unique information such as Name, Description, Folder, Dimension, Start Date and Hierarchy View details and click **Save**.

4.5.3.4 Deleting Hierarchy Definition Details

To delete a Hierarchy Definition:

- 1. Highlight the Hierarchy Definition and click **Action**.
- Click Delete.

The Hierarchy Definition is deleted after confirmation.



You cannot delete a definition if any dependency like Attribute, Hierarchy or Filter is attached to it. Detach the dependency before deleting the definition.

4.6 Viewing Data in a Summary Page

A Summary page will contain a list of definitions associated with a specific Dimension Data, Filters, Batch or Schedules.

You can search, filter and customize the view to access the required data faster.

4.6.1 Searching Summary

Search for a specific Definition based on the following criteria. Select/Enter one or more unique values/tag or Leaf and Enabled status associated with the definition and click **Search**.

4.6.2 Sorting a Summary Page

Sort the list of definitions, to view a specific definition, in a definition Summary .

To sort the various Definitions list:

- Sort By: Group the based on the following fields:
 - Member Summary Dimension, Name, Alphanumeric Code, Numeric Code, Enabled and Is Leaf Status, Attribute Name (if the selected Dimension has Dimension Type Attribute) and Attribute Value.
 - Attribute Summary Branch, Name, Code and Data Type.
 - Hierarchy Summary Dimension, Name, Tag and Folders.
 - Filter Summary Name, Folder and Filter Type.
- Sort Order: Sort the Complete list in Ascending/Descending order.

4.6.3 Setting Number of Records per Page

Customize the number of records per page, to access the required record easily.

At the bottom of the page, you can enter the number of entries that are available on a single page in the **Records** box. By default, this value is set to 8. You can increase or decrease the number of entries that are displayed using the up and down arrows.

To access a particular page, enter that page number in the Page Box located at the bottom of the page.

To navigate between pages:

- Use **First page** to view the entries in the first page.
- Use the **Previous page**, to view the entries in the previous page.
- Use the Next page, to view the entries in the next page.
- Use the Last page, to view the entries in the last page.



5

Data Management Tools

This chapter introduces the Balance Reconciliation and Data Verification topics.

Data Management Topics:

- Balance Reconciliation: Balance Reconciliation module helps you to Reconcile the selected processing/instrument/account balances against the Management Ledger. If any differences are found, you will have the flexibility to choose significant differences and create plug entries for those in the Ledger_Instruments table.
- Data Verification: Data Verification UI allows you to carry out small edits on the imported data. You can also add few entries manually using this UI.
- Data Housekeeping: The Data Housekeeping UI helps you to delete data, drop partitions and truncate sub-partitions, and archive the data from selected tables.

5.1 PBSM Balance Reconciliation

The Profitability and Balance Sheet Management Cloud Service's Balance Reconciliation module helps you to Reconcile the selected processing/instrument/account balances against the Management Ledger. If any differences are found, you will have the flexibility to choose significant differences and create plug entries for those in the Ledger Instruments table.



All General Ledger Accounts must mandatorily have a Reconciliation product mapped to them.

You can define the dummy attributes for the Product-Currency combinations, whichever General Ledger Account is used for Reconciliation. Default dummy attributes are auto populated based on the linked product ID and currency selected in Reconciliation dimensions.

Reconciliation is a three-step process.

- Reconciliation Definition and Default Attributes setup
- Reconciliation Report verification
- Plug entry creation and writing the Reconciliation differences back to Ledger Instruments table

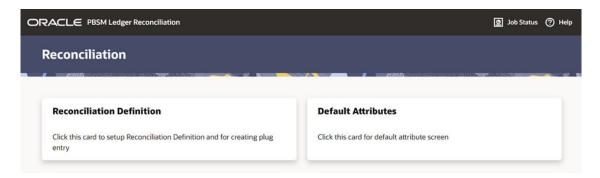
To access the Balance Reconciliation module, from the LHS Menu, navigate to **Data Management Tools**, and select **Balance Reconciliation**.

The Balance Reconciliation landing screen displays the following two cards:

- Reconciliation Definition
- Default Attributes

- Ledger Balances with Balance Type CD as only 0, will be considered for reconciliation.
- Balance Sheet category will be derived based on Common COA linked as attribute with selected GL account, which subsequently has Account Type defined as attribute of the concerned Common COA.
- Reconciliation Product must be defined as attribute of GL accounts which participate in reconciliation, so system can pick account attributes for the plug entry creation.

Figure 5-1 Reconciliation Landing Screen

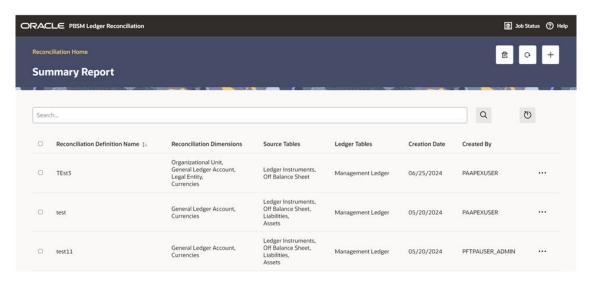


5.1.1 Reconciliation Definition

The Reconciliation Definition summary screen allows you to search for any definitions from the displayed list.

The Reconciliation Definition summary screen is as follows:

Figure 5-2 Reconciliation Definition Summary Screen



This screen displays the following definition attributes for easy identification:

- Reconciliation Definition Name
- Reconciliation Dimensions across which reconciliation is performed
- Source Tables against which reconciliation is performed
- Ledger Tables
- Creation Date
- Created By
- Actions icon

5.1.1.1 Adding a New Reconciliation Definition

The Create Reconciliation screen allows you to define a new Reconciliation Definition.

To add a new Reconciliation Definition, click the Add button on the summary screen.



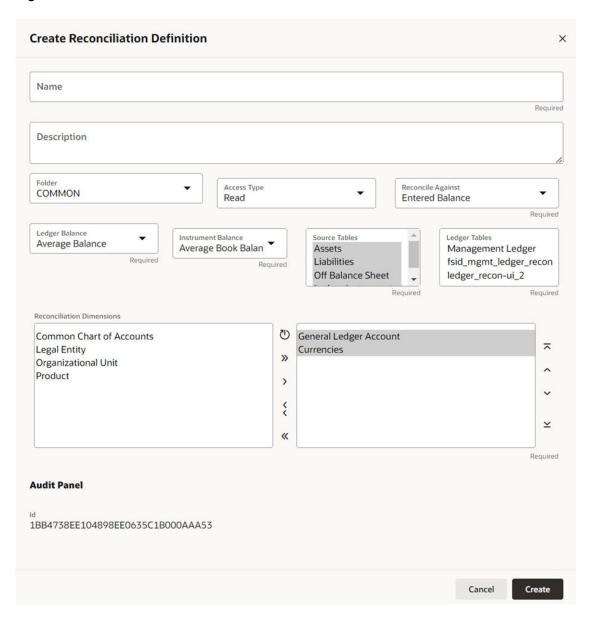


Figure 5-3 Create Reconciliation Definition Screen

Reconciliation Definition set up allows you to choose for which Instrument Table, across which Dimensions and on which Balance Type (Cur Book Bal or Cur Par Bal); you would like to perform reconciliation. For example, you can choose to reconcile against just GL Account ID and Currency or do reconciliation at much granular level by selecting the Org Unit, Legal Entity along with GL Account ID and Currency.

While selecting reconciliation key dimensions, you have the option to choose from activated placeholder dimensions as well along with seeded key dimensions.

Similarly, there is a seeded FSI_D_MANAGEMENT_LEDGER table, which will be used by default for balance reconciliation against selected portfolio of accounts. In case, there are any activated placeholder management ledgers as well, those will also be available for selection and subsequently for balance reconciliation.

5.1.1.2 Reconciliation Balance

Management Ledger stores balance using Financial Elements, while corresponding Cur/Avg Balance can be picked directly from the dedicated columns in the Instrument Tables. So, you have an option to choose if you want to reconcile against 100 (ending balance)/140 (average balance). In the Management Ledger for FE 100, you can further select between CUR_BOOK_BAL/CUR_PAR_BAL from Instrument table. By Default, CUR_PAR_BAL would remain selected. You are allowed to create plug entries only when comparison is done against ending balance. For Average balance, you can only see the difference report but would not be allowed to create plug entries.

You can choose to reconcile in functional or local currency as per the selection made under 'Reconcile Against'; Functional or Entered Currency.

You can do the comparison only for Asset, Liability, or can include Ledger Instrument table also. At run time, the As-of-Date can be passed for which Balance Reconciliation will be performed.

5.1.1.3 Actions Performed on Reconciliation Definition

To delete one or multiple Reconciliation Definitions, you can select the checkboxes against each one of them and press the **Delete** button.

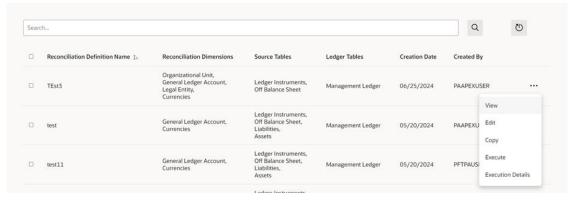
A confirmation message will let you confirm and delete selected definitions.

You can also perform search based on following fields:

- Name
- Reconciliation Dimensions
- Source tables against which reconciliation is performed
- Folder where the reconciliation definition is stored

The following screen display the **Actions** menu from which the different actions that you can perform on existing Reconciliation Definitions.

Figure 5-4 Actions Icon and Different Actions



The following are the actions:

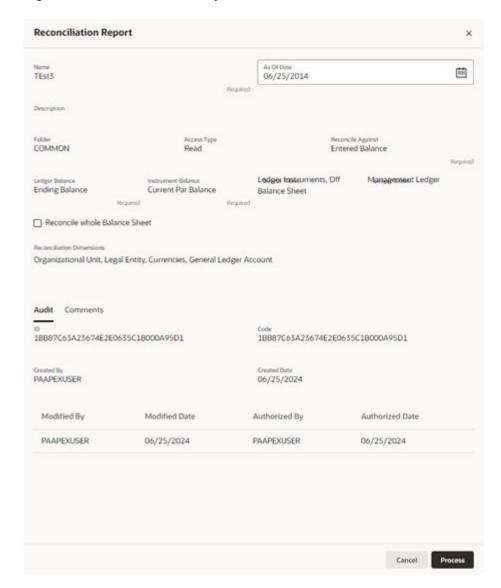
View: Click this action button and view the definition in read only format.



- Edit: Click this action button and edit the definition.
- Copy: Click this action button and copy the definition to create another definition with similar parameters.
- Execute: Click this action button and perform the reconciliation as per the selected parameters.

As-of-Date is a run time parameter, you can choose for which date reconciliation needs to be performed. After clicking **Process**, the Reconciliation Difference Report will be generated as follows:

Figure 5-5 Reconciliation Report



Report starts with the summary across Balance Sheet categories and difference buckets pie charts, which can help you to get an idea about the reconciliation difference in a quick glimpse.



Figure 5-6 Reconciliation Difference Report



The detailed report is displayed as follows, where you can filter out insignificant difference using 'Threshold Percentage', also threshold can be applied at each row level or for whole Balance Sheet category level. If threshold is applied at Balance Sheet category level, all the rows that belong to the Balance Sheet category which is less than given percentage will be hidden from the Reconciliation Difference Report. A download button allows you to download the Reconciliation Report.

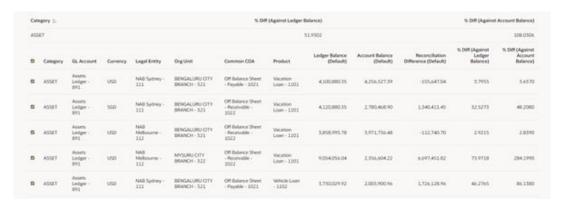
You can select **Filter at Category Level** toggle switch to apply threshold at 'consolidated difference reports', which is at balance sheet category level OR can directly apply the threshold to each difference row, which is available at the unique combination of selected key dimensions.

You can select the **ID / Code** toggle switch to see the CD data. By default, the toggle switch displays the ID data.

You can also change the unit of balance to thousands or millions.

You can see difference in both percentage and absolute format.

Figure 5-7 Differences in Percentage and Absolute Formats



As a next step to create the plug entries for filtered rows, you can click the **Apply** button in extreme right corner. Following a grid appears, along with default attributes fetched from default product attributes: if you like, you can update any of these attributes before plug entries are created for the selected difference records. You can use the **Edit** and **Save** button to edit the default product attributes like Amortization Type, Interest Rate Code, and



so on. You cannot edit any Code (CD) or VARCHAR attributes. Only attributes like Number, Rates, Dates, Term can be edited. All types of balances like Org balance, Current/Average balance are same as the reconciliation difference.

After you are convinced with the entered values for all the account attributes, you can click Apply. A job will be submitted and plug entries will be created in the FSI D Ledger Instruments table. To differentiate the plug entries from the customer real accounts, Data source CD will be used, with value 3, which signifies the 'Difference balance entries due to reconciliation performed between account and ledger'.

As of Date: 31 January 2021 Q = Scorch All Text Columns Ge Actions = 681 See BENGALURU CITY BRANC.... OF Balance Sheet - Payable - 1021 NAB Melbourne - 112 NAB Sydney - 111 MYSURU CITY BRANCH - ... Off Balance Sheet - Receivable - 1022 D II ASSET BENGALURU CITY BRANC... OF Balance Sheet - Payable - 1021 5.152,612 D B ASSET NAB Melbourne - 112 BENGALURU CITY BRANC OF Balance Sheet - Payable - 1021 5,324,588. D II ASSET Assets Ledger - 891 NAB Melbourne - 112 MYSURU CITY BRANCH - Off Balance Sheet - Payable - 1021 9.001.517. SENGALURU CITY SRANC... Off Balance Sheet - Receivable - 1022 ☐ E ASSET Assets Ledger - 891 500 NAB Melsourne - 112 9.011.501 D E ASSET Assets Ledger - TVI NAB Sydney - 111 BENGALURU CITY BRANC. Off Balance Sheet - Payable - 1021

Figure 5-8 Differences in Percentage and Absolute Formats

 Execution Details: You can click this action button and view all the runs for a selected definition, along with the user information who has triggered the execution.





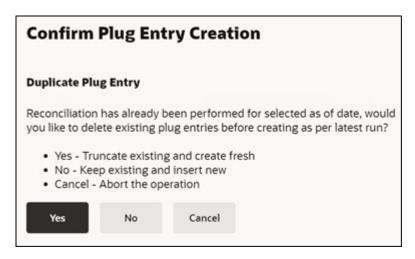
5.1.2 Duplicate Runs for Same As-of-Date

If for a particular As-of-Date plug entries are already created, you have an option to cancel the latest run and exit without creating any plug entries.

You can append to existing entries for same As-of-Date. This case is possible if different reconciliation definitions are being executed for different instrument tables.

You can delete all the existing plug entries for concerned As-of-Date and create all fresh entries. This case is possible if the intermediate day runs took place locally and finally at night a global run took place.

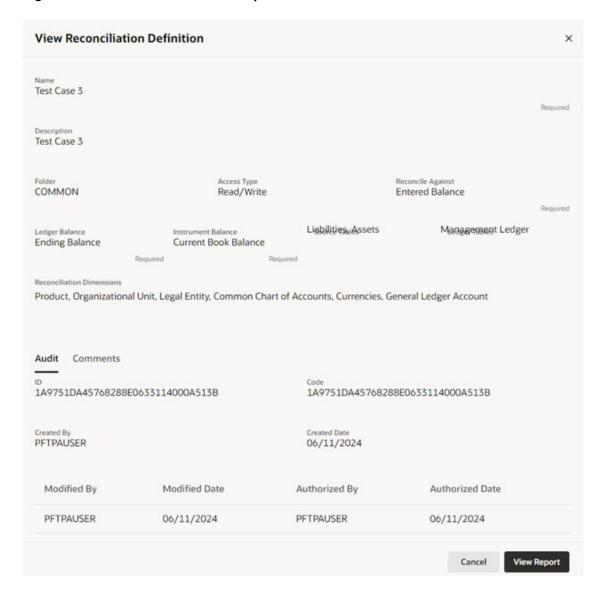
Figure 5-10 Confirm Plug Entry Creation



5.1.3 Historical Difference Report

You can open the Reconciliation Definition in **View** mode and get the Historical Difference Report using the **View Report** button.

Figure 5-11 View Reconciliation Report



Here you can give a historical period by selecting the **From Date**, **To Date** and fetch all the reconciliation difference records along with the user comments to get the justification for plug entries creation.

ORACLE PBSM Ledger Reconciliation 3 Job Status (7) Help **Historical Differences Report for Test Case 3** cle Agentel Leitger Balance Instrument Balance Stores Tolles. Recon-ed Balance Ending Balance Cur Book Bal Liabilities, Assets Organ Q 01/01/2021 02/28/2021 Q . Search: All Text Columns Go 01/31/2021 USD 112 322 1021 1102 13,273,197.07 2,328,107.26 2,328,107.26 USD 321 1101 2,133,434.98 2,133,434.98 01/51/2021 111 01/51/2021 5GD 111 322 1022 1102 0.687,589.18 4,104,974.17 4,104,974.17 2,582,615.01 01/31/2021 891 USD 112 321 1022 1101 3,858,995.78 3,971,736.48 3,971,736.48 -112,740.70 01/31/2021 891 SGD 111 521 1022 1101 4.120.880.35 2.780.468.90 2.780.468.90 1.540.411.45

Figure 5-12 Historical Differences Report for FUNCT

5.1.4 Default Attributes

The following is the Default Attribute Summary screen, where you can find all the default attributes defined for various Product-Currency combinations.

You can select one or multiple Product-Currency combinations and delete at once, by clicking the **Delete** button.

Figure 5-13 Default Attributes Summary



You can view/edit/copy an existing default attribute using respective button inn the Actions icon as follows.

Figure 5-14 Default Attributes Summary – Actions Column

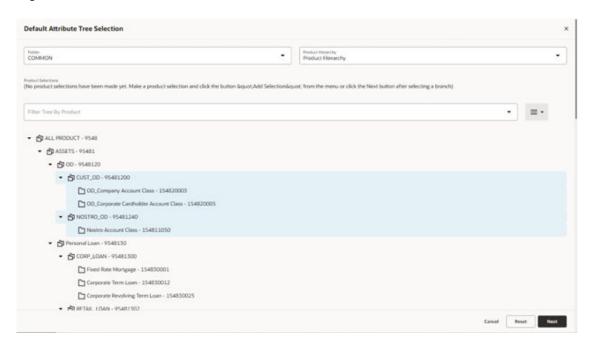




5.1.4.1 Creating a New Product-Currency Combination and Default Attributes

To create a new Product-Currency combination and default attributes for that. You can click the **Add** button, and a slide in pop-up will appear with three tabs:

Figure 5-15 Default Attribute Tree Selection

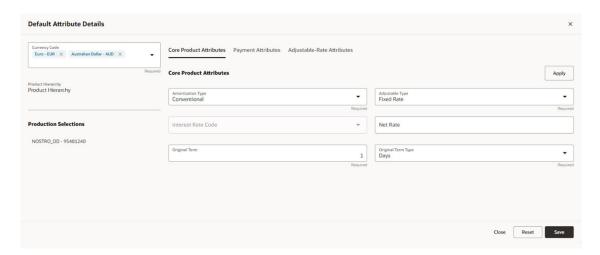


Core Product Attributes Tab: Here you can select one or multiple products and one or multiple currencies and start defining core product attributes as follows:

- Amortization Type
- Adjustable Type
- Interest Rate Code
- · Net Interest Rate
- Original Term
- Original Term Type



Figure 5-16 Core Product Attributes

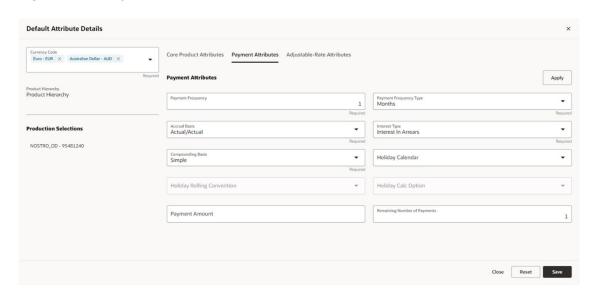


Click **Apply** and move to the Payment Attributes tab.

Payment Attributes Tab: To Define payment attributes, you can select this tab and start filling the following details:

- Payment Frequency
- Payment Frequency Type
- Accrual Basis
- Interest Type
- Compounding Basis
- Payment Amount
- Remaining Number of Payments

Figure 5-17 Payment Attributes





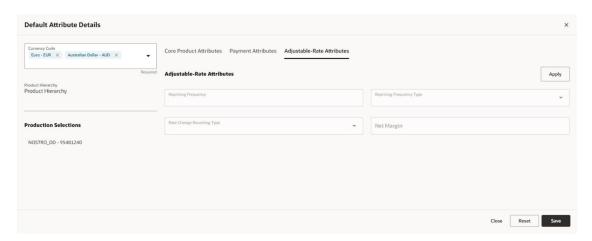
Click **Apply** and move to the Adjustable-Rate Attributes tab, which is applicable only for adjustable rate instruments:

Adjustable-Rate Attributes Tab: Here you can define following attributes:

- Repricing Frequency
- Repricing Frequency Type
- Rate Change Rounding Type
- Net Margin

Click **Apply** and then click **Save**. The Default Product Attribute for the selected Product-Currency combination is saved.

Figure 5-18 Adjustable-Rate Attributes



5.1.5 Reconciliation using Batch Process

You can do Reconciliation using the Scheduler Services.

To run the Reconciliation using Batch Process, follow these steps:

- With the Define Batch feature, it is possible to create new batches and review existing ones.
- 2. Click + to create a new batch.
- 3. In the Create Batch screen, enter the following values:
 - a. Code (spaces are not allowed in the code section).
 - b. Batch Name
 - Select the Service URL name as RUN_CMD_SERVICE.
 - d. Click Save.
- 4. In the **Define Task** screen, you can define the tasks related to a specific batch.
 - a. Navigate to Define Task.
 - Select the name of the batch that has been created for this task.
- Click + to create a new task.



- 6. In the **Create Task** screen, enter the following values:
 - a. Task Code (Spaces are not allowed in the code section). b.
 - b. Task Name.
 - Select the task type as REST.
 - d. Select the component as **RUNCMD**.
 - Select Batch Service URL as RUN_CMD_SERVICE.
 - f. Click Save.
- 7. In the **Task Parameter** section, enter the following values:
 - Select the Code as RUN CMD RECONCILIATION.
 - b. Select the Execution Venue as **NATIVE**.
 - c. Select the Optional Parameter as THRESHOLD_OBJECTCODE_OPTION format.
 - d. Select the IP as localhost.

The allowed values for the Option are either 0 or 1.

- 0: Truncate all existing data for concerned AS_OF_DATE/MIS_DATE for which
 reconciliation batch is getting executed and insert new data.
- 1: Append data on top of existing data for concerned AS_OF_DATE/MIS_DATE to ledger instrument and reconciliation difference Audit table (Table to retain comments for each plug entry).

Threshold values must be greater than or equal to zero (0), negative values are not supported. Threshold values should be expressed as "threshold >= 0" The threshold will accommodate null values, allowing all data to be inserted into the ledger instrument and reconciliation difference audit tables.

When a threshold is applied, plug entries will be created only for filtered data into the ledger instrument and reconciliation difference audit tables.



Select the appropriate object code/reconciliation definition to avoid errors in the batch process.

The optional values should be passed in the following format:

"THRESHOLD OBJECTCODE OPTION"

Example 1: "_F405734331FD795BE053D71A000AD329_0

(Threshold is null, and object code is: F405734331FD795BE053D71A000AD329, option value is 0)

Example1: 12 F405734331FD795BE053D71A000AD329 1

(Threshold is 12, and object code is: F405734331FD795BE053D71A000AD329, option value is 1)

8. Schedule the batch using the **Schedule Batch** screen.

Select the **Name** of the batch that has been created.

You can use the **Edit Parameters** option to review the batch parameters and make any necessary changes to initializing the batch process.



- The following tasks should be performed in a manner similar to what was outlined in point number 7.
 - a. The MIS Date is used as the As of Date in the Reconciliation UI. Select the appropriate MIS Date.
 - **b.** The values in point 6 are the default values for a specific environment.
 - **c.** After completing the changes, click **Execute** or **Save**.
 - i. By clicking Save, the definition of the batch will be saved, however, the batch will not be executed.
 - By clicking Execute, the batch will be executed.

After the batch is executed, an **Execute Status** dialog is displayed, providing information about the executed batch.

After the batch is executed, the information about the executed batch will be available in the **Monitor Batch** screen. Select the following options and check the Batch Status.

Sometimes, a batch may fail. The reason for the batch failure could be as follows:

- Entering an incorrect object code.
- Entering an incorrect option value. Only values of 0 or 1 are supported.
- Entering an incorrect threshold value. Only null or a value >= 0 are supported.

Note:

Following roles mapping to the SKU User group should be present to enable RUNCMD listing and execution.

- RCMDREAD
- RCMDADVND

For detailed instructions for defining, executing, and monitoring a Batch, see the Scheduler Service documentation.

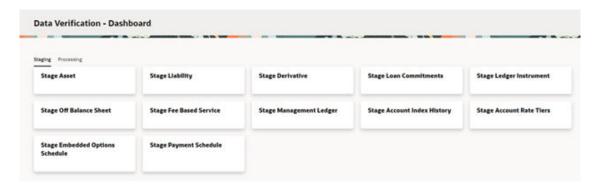
5.2 Data Verification

The Data Verification UI helps you to verify the data that is loaded from the source systems to the Cloud Service's stage and processing tables, make minor corrections/adjustment to the data, and add new data directly into the tables. This UI allows you to add one record at a time and is not recommended for high volume additions as entering data is a lengthy process.

To open the Data Verification screen, from the LHS menu, select **Data Management Tool**, and then select **Data Verification**.



Figure 5-19 Data Verification Dashboard



This screen displays two tabs namely Staging and Processing. The Staging tab displays the tables that are in the staging level where you can select a table, see the data, carry out corrections, or add new data. The Processing tab displays the tables that are at the processing level and you can do all the actions similar to Staging tables.

When you select a table, a new window is displayed with a grid where you can see the selected columns.

Figure 5-20 Data Verification – Stage Asset (sample Staging table)

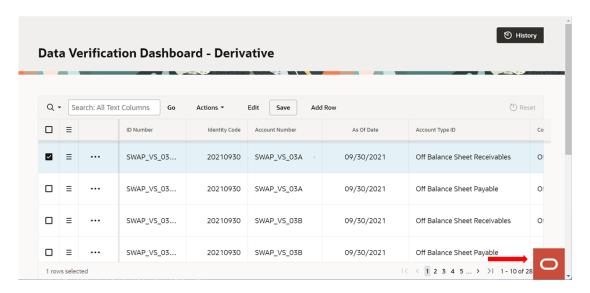


Navigating through Data Verification

Once you select a table and modify or verify your details, you can navigate back to the Dashboard or a specific Table by clicking the O logo at the bottom-right corner. This takes you to the Ask Oracle screen where the Dashboard and all the tables are listed. You can click on the line item that you want to go to that Dashboard.



Figure 5-21 Navigation through Data Verification



Users and Roles

The following roles and functions are required to use the Data Verification UI, edits the data, and add data to the Stage and Processing tables.

Table 5-1 Roles and Role Names

Role	Role Name
RLGADMACC	Data Management Access
RLGADMWRITE	Data Management Write
RLGADMREAD	Data Management Read Only
RLGADMPASRN	Data Management PA Access

The access to the users can be restricted up to table level because all the users need not have access to all the tables.

Add a New Record

To add a new record to a selected stage/processing table, click **Add Row**. Enter/populate the mandatory and the relevant columns and then click Save. When you click **Add Row**, you must enter the mandatory key columns first, and then click ellipsis (...) icon. After this your can click the ellipsis (...) icon to open the Edit Table window, fill the relevant details and then save the details.

Delete a Row

To delete a row, select the row and click the hamburger icon to collapse the menu where you can select **Delete Row**.



Duplicate a Row

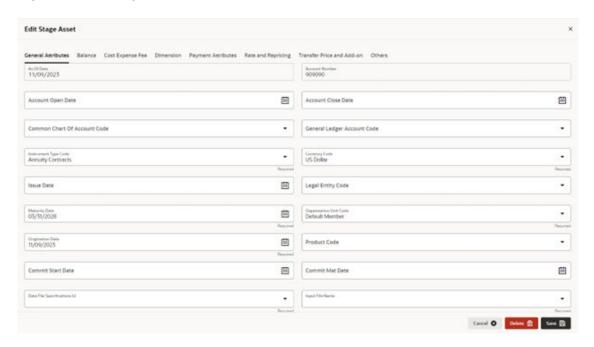
You can select a row and click **Duplicate Row** from the hamburger menu. This creates duplicate row with the same values in the Data Verification - <Table> screen.

Edit a Record

To edit a record, select a row from the Data Verification window. There are two ways in which you can edit the columns from the table.

- Select a row from the Data Verification grid and click the Edit button. This enables the
 columns that are exposed. You can double-click the entry to edit. Editing the key columns
 in the table is restricted.
- Select a row from the Data Verification grid and click the ellipsis (...) icon, and then click
 Edit. This opens the Edit Table window. This window displays all the columns from the
 table. The columns are categorized based on their nature and displayed in different tabs.
 You can select the relevant columns and edit. After you update the relevant details, click
 Save.





Actions Menu

The Actions menu displays a list of actions that you can perform on a selected record. Few actions are explained below:

- Columns: This displays the Columns window where you reorder the displayed columns, remove form display columns that you don't want to be displayed. If you don't want to display a particular column, select the check-box against the column name, and then click Save.
- **Filter**: This helps you to set a criterion to search a particular record. You can also set a filter by selecting the Search button on the top-left-corner of the grid. This collapses list of all the columns in the selected table. You can select a column and filter the records based on it.

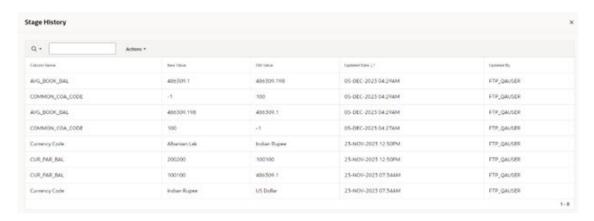


- Data: Displays sorting options.
- Format: From here, you can set the number of rows per page to be displayed.
- Report: This option allows you to generate and save a report.

View History

This option displays the changes carried out on a selected record. To see the history on a record, select the record, click the ellipsis (...) icon, and then select View History. This displays the history of updates on the selected record with details such as Column Name, New Value, Old Value, Updated Date, and Updated By.

Figure 5-23 History at Record Level

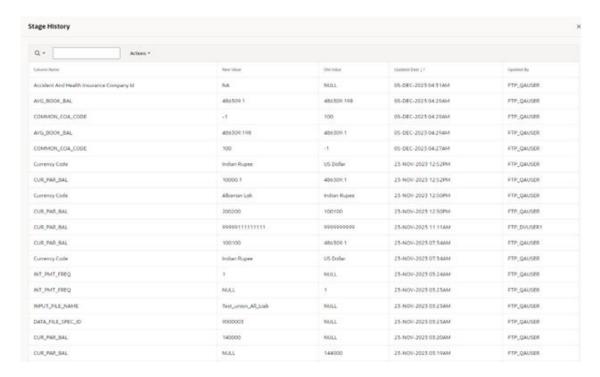


To navigate back to the Dashboard or the selected table's Data Verification screen, you can click on the O logo at the right-bottom corner, and then select Dashboard on the next screen. You can also type the table name for a guick search.

To see the history of all the records on a particular table, select the record and click the History button on the top right-hand corner of the screen. This displays all the updates done on the all the records in the table. A sample screen of the history on the table is as follows:



Figure 5-24 History at Table Level



5.3 Data Housekeeping

The Data Housekeeping UI helps you to perform the followings tasks based on user defined criteria:

- · Delete data from selected tables
- Drop partitions and truncate subpartitions from selected tables
- Archive the data from selected tables

You can use this as data retention in PBSM cloud services.

To open the Data Housekeeping screen, from the LHS menu, select **Data Management Tool**, and then select **Data Housekeeping**.

Users and Roles

The following roles and functions are required to use the Data Housekeeping UI.

Table 5-2 Roles and Role Names

Role Code	Role Name	Function Code	Function Name
RLDHKANALYST	Data Housekeeping Analyst Role	DHKADD	Create Data Housekeeping Policy
		DHKRUN	Run Data Housekeeping Policy
		DHKDEL	Delete Data Housekeeping Policy
		DHKEDIT	Edit Data Housekeeping Policy

Table 5-2 (Cont.) Roles and Role Names

		DHKVIEW	View Data Housekeeping Policy
		DHKLOG	View Data Housekeeping Policy execution log
RLDHKAUTH	Data Housekeeping Authorizer Role	DHKAUTH	Authorize Data Housekeeping Policy
		DHKADD	Create Data Housekeeping Policy
		DHKRUN	Run Data Housekeeping Policy
		DHK	Delete Data Housekeeping Policy
		DHKEDIT	Edit Data Housekeeping Policy
		DHKVIEW	View Data Housekeeping Policy
	DHKLOG	View Data Housekeeping Policy execution log	
RLDHKAUDIT	Data Housekeeping Auditor Role	DHKVIEW	View Data Housekeeping Policy
		DHKLOG	View Data Housekeeping Policy execution log

Data Housekeeping Summary

Search Policy

Prerequisites: Predefined Policy

To search for a Policy:

- You can search a policy is through the Search drop-down option. Select Policy Name, Policy Type, Seeded Policy Flag, Last Execution Status, and Created By from Search drop-down.
- 2. Enter the Policy Name, Policy Type, Seeded Policy Flag, Last Execution Status, and Created By in Search Criteria and click Go.

Rows that contain the string you are searching for are fetched and displayed in the Data Housekeeping Summary.

The Data Housekeeping Summary displays the following information:

New Policy: Click the New Policy icon on the page header to build a new policy.

- Name: The policy name.
- Schedule: Shows the time when the policy is scheduled.
- Type: The Type (Archive, Drop Partition, Delete) of the policy.
- Seeded Policy Flag: Shows the type of policy as Yes if the policy is seeded.
- Last Run Date: The Date and Time when the policy was last modified.

- Created Date: the date when policy was created.
- Last Execution Status: The status of policy after execution.
- Actions: Click this icon to view a list of actions that you can perform on the Policy.
 - View: View existing policy.
 - Edit: Edit existing policy. To edit a rule, you must have Read/Write privilege.
 - Authorize: Select Authorize to approve the policy for execution.
 - Withdraw Jobs: Select Withdraw Jobs to cancel the Job execution.
 - View Log: Select View Log to view the audit information of the policy. This information includes pending and running jobs.
 - Delete: You can delete policies that you no longer require. Note that only policy owners and those with Read/Write privileges can delete Policies. A policy that has a dependency cannot be deleted. A policy cannot be retrieved after deletion.

5.3.1 Create Data Housekeeping Policy

To create a new Data Housekeeping policy, follow these steps:

- 1. Navigate to the **Data Housekeeping Summary** Page.
- 2. Click the New Policy icon. The Create Data Housekeeping Page is displayed.
- Click Start to create a new policy.
- 4. Enter the required details and Submit.

Below are the supported Policy Types:

- Create Drop-Partition Policy
- Create Archive Policy
- Create Delete Policy

5.3.1.1 Create Drop Partition Policy

This section provides the details on dropping the partition data from selected tables based on user defined criteria.

To create Drop Partition Policy, follow these steps:

- 1. Navigate to **New Policy** page.
- 2. Follow the steps mentioned in below sections:
 - a. Step 1: Policy Definition
 - b. Step 2: Selection
 - c. Step 3: Condition



This section is not applicable to **Drop Partition** policy type.

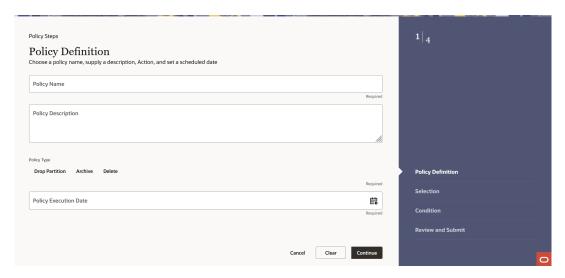
d. Step 4: Preview and Submit



Step 1: Policy Definition section

1. From Policy Details tab, click Start. The Policy Definition page is displayed.

Figure 5-25 Policy Definition section

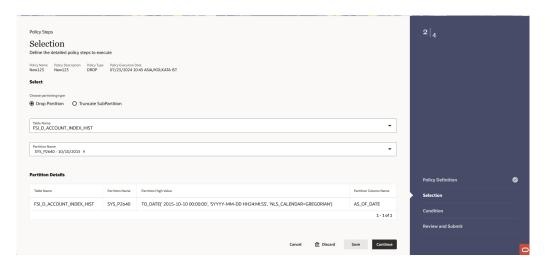


- 2. Enter the following details:
 - Name: Name of Policy
 - Description: Description of Policy
 - Type: Type of Policy as Drop Partition
 - Policy Execution Date: Select the execution date and time of policy using calendar
- 3. Click Continue.

Step 2: Selection section

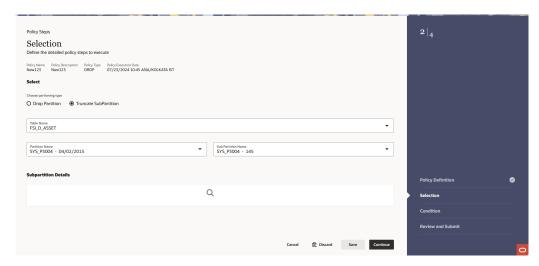
- Navigate to the Selection section. The Selection window is displayed to define the partitions.
- 2. Select the Partition type as Drop Partition or Truncate Subpartition.
 - a. If **Partition type** is selected as **Drop Partition**, then following window is displayed:

Figure 5-26 Partition type as Drop Partition



- b. Select the table(s) for which you want to do the partitions. The list of available partitions is displayed that contain data.
- c. Select the Partition Name. Partition Name shows the partition of the selected table from the database.
 - The Partition details will be displayed in Partition Details section. This shows the Table Name, Partition Name, column name and metdata on which partition is created. This doesn't show empty partitions.
- d. Click Continue.
- a. If Partition type is selected as Truncate Subpartition, then following window is displayed:

Figure 5-27 Partition type as Truncate Subpartition



- b. Select the table(s) for which you want to do the sub partitions. The list of available sub partitions is displayed that contain data.
- **c.** Select the Sub Partition Name. Sub Partition Name shows the columns and metadata on which sub-partition has been created.
 - The Sub Partition details will be displayed in Subpartition Details section. This shows the Table Name, Subpartition Name, column name and metdata on which partition is created. This doesn't show empty partitions.



d. Click Continue.



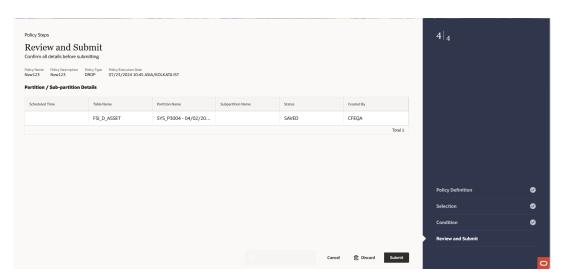
If only sub-partition is selected to remove then only data from it will deleted. Sub-partition is not dropped to enable customer re-load data in it, if needed. Sub-partitions in PBSM data model is created with a pre-defined list.

3. Click Continue.

Step 3: Preview and Submit section

Navigate to Preview and Submit section. Review the policy details.

Figure 5-28 Preview and Submit section



Click Submit to create the policy. The created policy will be displayed on Data Housekeeping Summary page.

5.3.1.2 Create Archive Policy

This section provides the details on archiving the data from selected tables based on user defined criteria.

To create Archive Policy, follow these steps:

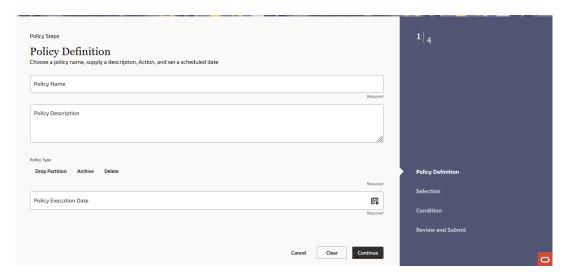
- 1. Navigate to **New Policy** page.
- 2. Follow the steps mentioned in below sections:
 - a. Step 1: Policy Definition
 - b. Step 2: Selection
 - c. Step 3: Condition
 - d. Step 4: Preview and Submit



Step 1: Policy Definition section

1. From Policy Details tab, click Start. The Policy Definition page is displayed.

Figure 5-29 Policy Definition section

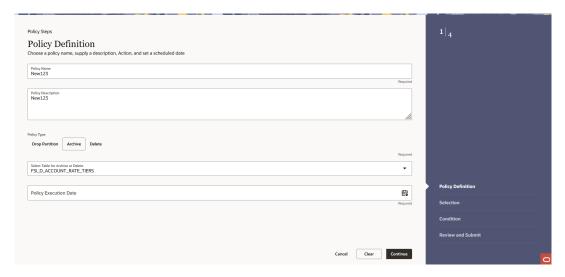


- 2. Enter the following details:
 - Name: Name of Policy
 - Description: Description of Policy
 - Type: Type of Policy as Archive

Step 2: Selection section

Navigate to the Selection section.

Figure 5-30 Selection section



Select Table which you want to archive from Select Table for Archive or Delete dropdown.



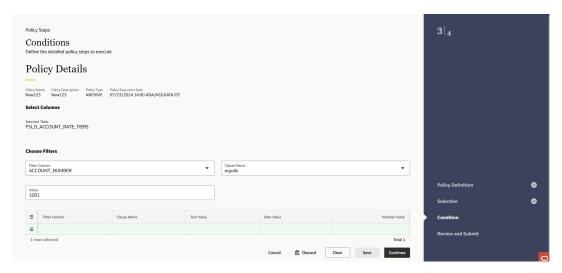
- 3. Select the policy execution date and time of policy using Policy Execution Date calendar
- Click Continue.

Step 3: Conditions

This section allows you to define the conditions(s) to archive the table.

Navigate to the Conditions section.

Figure 5-31 Conditions section



- Select the column(s) using filter.
- Select operator from Clause Name drop-down. The list of operators displays based on the selected Column Name.



You must select at least one condition to avoid the full table archive. Use AND if you want to use multiple columns. You can select columns from pre-defined list. Don't use wild card characters. Supported operators are: >, <, <=, and =>.

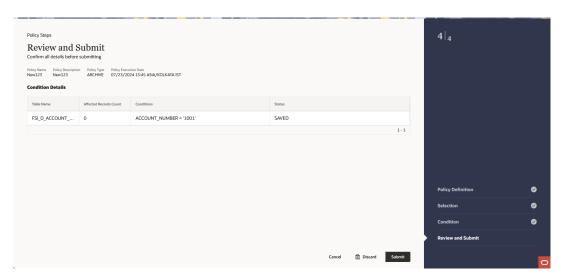
- 4. Enter condition value for selected column.
 - For example, If you have selected **Column** as **Account Number**, then select **Equals** operator from **Clause Name** drop-down, and enter alphanumeric value in **Value** field.
 - To add more conditions, define the condition and click **Save**.
- 5. Click Continue.

Step 4: Preview and Submit section

1. Navigate to Preview and Submit section. Review the policy details.



Figure 5-32 Preview and Submit section



2. Click **Submit** to create the policy. The created policy will be displayed on **Data Housekeeping Summary** page.



Data that is archived remains in the same table but is invisible to user. Thus, they cannot be inserted back as it will violate unique constraint of concerned table.

5.3.1.3 Create Delete Policy

This section provides the details on deleting the data from selected tables based on user defined criteria.

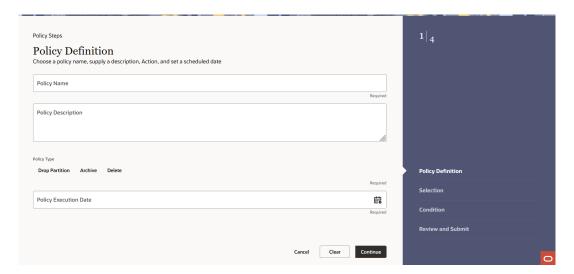
To create Delete Policy, follow these steps:

- 1. Navigate to **New Policy** page.
- Follow the steps mentioned in below sections:
 - a. Step 1: Policy Definition
 - b. Step 2: Selection
 - c. Step 3: Condition
 - d. Step 4: Preview and Submit

Step 1: Policy Definition section

From Policy Details tab, click Start. The Policy Definition page is displayed.

Figure 5-33 Policy Definition section



2. Enter the following details:

Name: Name of Policy

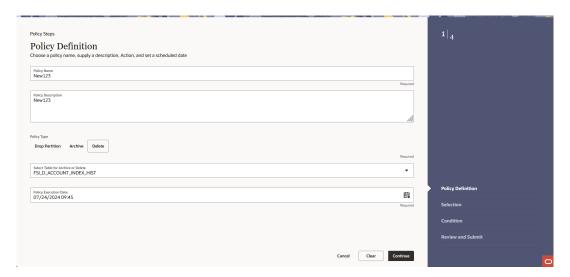
Description: Description of Policy

Type: Type of Policy as Delete

Step 2: Selection section

Navigate to the Selection section.

Figure 5-34 Selection section



- Select Table which you want to Delete from Select Table for Archive or Delete dropdown.
- 3. Select the policy execution date and time of policy using **Policy Execution Date** calendar
- 4. Click Continue.

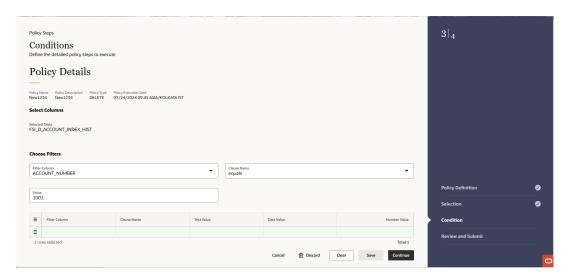
Step 3: Conditions

This section allows you to define the conditions(s) to Delete the table.



Navigate to the Conditions section.

Figure 5-35 Conditions section



- Select the column(s) using filter.
- Select operator from Clause Name drop-down. The list of operators displays based on the selected Column Name.



You must select at least one condition to avoid the full table Delete. Use AND if you want to use multiple columns. You can select columns from pre-defined list. Don't use wlid card characters. Supported operators are: >, <, <=, and =>.

- 4. Enter condition value for selected column.

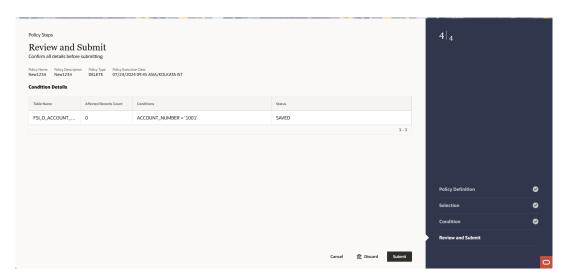
 For example, If you have selected Column as Account Number, then select Equals operator from Clause Name drop-down, and enter alphanumeric value in Value field.
 - To add more conditions, define the condition and click **Save**.
- 5. Click Continue.

Step 4: Preview and Submit section

Navigate to Preview and Submit section. Review the policy details.



Figure 5-36 Preview and Submit section



2. Click **Submit** to create the policy. The created policy will be displayed on **Data Housekeeping Summary** page.

5.3.2 Authorize a Policy

To authorize a policy, follow these steps:

Predefined Data Housekeeping Policy

- 1. Navigate to the **Data Housekeeping Summary** page
- 2. Search for a policy that you want to authorize. For further information, see the Data Housekeeping Summary section
- 3. Click on the **Action** icon against the policy name and select **Authorize**.

Data Housekeeping policy gets executed on scheduled date and time after authorization. It runs automatically at the defined date and time which was set during the policy creation.



6

Setup Configurations

The Set Up Configurations section of the PACS menu allows the user to check Batch Parameters to execute batches, define the mappings from Financial Elements to Instrument Line Items and define Segmentation Schemes for multiple Segment Types.

Topics:

- Preferences
- Batch Parameters
- Financial Element Mapping
- Segmentation Mapping
- Line Item Display Order
- · Geography Mapping
- Metrics Generator

6.1 Preferences

This section discusses the procedure to set the Global and Application preference setings.

To configure the Preferences, perform the following steps:

- From the LHS Menu, navigate to Setup Configurations, and select Preferences to display the Application Preference Screen.
- Select the user from Show Preferences for the drop-down list. This has the following options:
 - All User: If you have Administrator Privileges, you can define preferences for the All
 User Group and their individual account, which may be the same or different from the
 All User Settings. The Administrator can also designate the All User Preferences as
 Editable or Non-Editable on a row-by-row basis. If the individual preference is
 selected, as is Editable, then End Users can update or override the Administrator's
 default value for their own individual account. If the Is Editable box is deselected, then
 End Users cannot change the default for their individual account.
 - **End-User**: If you do not have Administrator Privileges, then certain preference items are pre-set by the Administrator and you may not be allowed to change the value. All Application Preference Settings are displayed, regardless of the access privilege.



Is Editable status is disabled since individual users are not expected to modify the following parameters.

6.1.1 Global Preferences

To set the Global Preferences, perform the following steps:

- 1. From the LHS Menu, navigate to **Setup Configurations**and select **Preferences**.
- 2. Under Global Preferences, enter the values as described in the following table.

Table 6-1 Global Preferences

Parameter	Description
Date Format	Select one value from the following list: dd-MMM-yy yyyy/MM/dd MM/dd/yyyy dd.MM.yyyy MM-dd-yyyy yyyy.MM.dd yyyy/MMM/dd dd-MMM-yyyy dd/MMM/yyyy yyyy.MMM.dd dd/MM/yyyy yyyy.MMM.dd dd/MM/yyyy yyyy.MMM.dd dd/MM/yyyy MM.dd.yyyy dd-MM-yyyy dd-MM-yyyy
Pagination Count	 yyyy-MMM-dd Pagination Records determine how many rows are displayed on summary and other screens. If you select Pagination Records to be 25 records, then any screen displaying results in a tabular format displays a maximum of 25 records.
Group Company Legal Hierarchy	This displays list of Legal Entity hierarchies that are configured in Dimension Management. Select one hierarchy that you want to use as the default legal entity.
Currency Rate Provider	This displays list of providers of Currency Exchange Rate. Value "Default" is seeded and selected as default.
	If you load Exchange Rates from more than one source like Reuters and Bloomberg then select one which you want the engine to use during processing.
	Members of dimension Rate Data Source are displayed in the drop-down list.
Functional Currency	A common functional currency is required which can be set here. This is required to consolidate the accounts' balances or charges at multiple hierarchy levels.

3. Click **Save** to confirm the changes or click **Reset to Default** to reset the Custom Configuration.



6.1.2 Application Preferences

Application Preferences Parameters are used to configure the Settings at the application level.

To update the Application Preferences, perform the following steps:

- 1. From the LHS Menu, navigate to **Setup Configurations** and select **Preferences**.
- 2. Click the **Application** tab and enter following values:

Table 6-2 Application Preferences Preferences

Parameter	Description
Parameters General	
Income Statement Hierarchy Selection	This displays list of Financial Element hierarchies that are configured in Dimension Management. Select one hierarchy that you want to use as the default income statement.
Balance Sheet Hierarchy Selection	This displays list of Financial Element hierarchies that are configured in Dimension Management. Select one hierarchy that you want to use as the default balance sheet.
Default Organizational Unit Hierarchy	This displays list of org unit hierarchies that are configured in Dimension Management. Select one hierarchy that you want to use as the default org unit.
Default Product Hierarchy	This displays list of product hierarchies that are configured in Dimension Management. Select one hierarchy that you want to use as the default product.
Default Region Hierarchy	This displays list of geographic location hierarchies that are configured in Dimension Management. Select one hierarchy that you wan to use as the default geographic location.
Default Begin Financial Year	The default month that marks the beginning of the financial year for the bank.
Default End Financial Year	The default month that marks the ending of the financial year for the bank.
Processing - Application Specific	•
Maximum Number of Segmentation Definition	The maximum number of segmentation definitions allowed. This is an integer value with maximum value allowed as 7.
Discount Factor for CLTV Processing (%)	Discount Factor for CLTV processing - this is a value from 0 to 100 (where 0 is 0% and 100 is 100%). The value allows upto 2 decimal places.
Assumption Management Defaults	,
Default Folder	This parameter allows you to define the default folder selection. The folder selection for all rule types will be defaulted to this selection within the summary page Search screen and when creating a new rule. This selection acts as the starting value for convenience only and users can change to any other available value at their discretion.



Table 6-2 (Cont.) Application Preferences Preferences

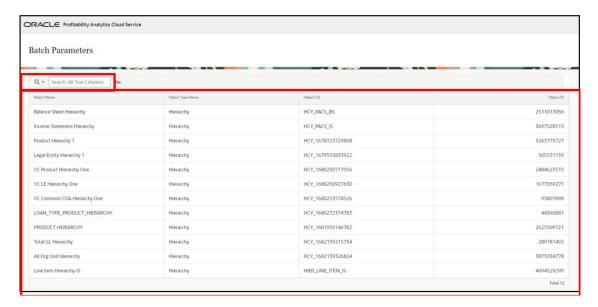
Parameter	Description
Access Type	This parameter allows you to set the default access typesetting. Selections include Read/ Write and Read Only. This selection acts as the starting value for convenience only and users can change at their discretion.

Click Save to confirm the changes or click Reset to Default to reset the Custom Configuration.

6.2 Batch Parameters

The Batch Parameters UI allows the user to check for the identifier to be utilized to correctly configure, schedule, and execute batches relevant to Profitability Analytics.

Figure 6-1 Batch Parameters - Summary



To check for the Batch Parameters, follow these steps:

- To open the Batch Parameters screen, navigate to Profitability Analytics Cloud, select Setup Configurations, and then select Batch Parameter.
 - The Batch Parameters screen displays a list of parameters that are already configured in the system or that will be configured by user interaction with the application. This screen displays the following details related to element/s, such as Hierarchy/Hierarchies and Segment/Segments that will be utilized by the batch execution as a parameter:
 - Object Name
 - Object Type
 - Object CD
 - Object ID
- 2. You can use the **Search** function to search for the out-of-the-box element objects.

3. You can use the **Object ID** from this screen to schedule your Batch.

6.3 Financial Element Mapping

The Financial Element Mapping user interface allows you to map the Financial Elements with the Portfolio Instrument columns.

Note:

- For Income Statement and Balance Sheet Hierarchies, or any other Hierarchy created out of Financial Element dimension, a Financial Element carrying a percentage value cannot be added as a child, Sibling to a child or Leaf under Parent/ Child/ Sibling in the Hierarchy. Users are expected to be mindful not to map a portfolio column to a FE denoting a rate or apply an expression, where a divisor is used in a way that the column value effectively becomes a rate, thus preventing a meaningful roll-up to the node of the hierarchy.
- Please note that a given Financial Element can be added only once for defining a mapping to a Portfolio column.

6.3.1 Navigation in the Summary Screen

To open the Financial Element Mapping screen, from the LHS Menu, select Setup Configurations, and then select Financial Element Mapping.

The Financial Element Mapping summary screen is displayed with the following details:

- Financial Element Member (enables to map the Financial Element members with the portfolio instrument columns)
- Balance Sheet Type (Asset or Liability)
- Signage (plus or minus)
- Portfolio Column Name (enables to map portfolio instrument columns calculated via Profitability Management)
- Filter Clause (allows to select one or more values out of all the portfolio columns and apply filtering to the underlying accounts for this mapping)
- Evaluation Formula (allows to select one or more portfolio columns to be used to compute
 a calculation, leveraging math operators as "+", "-", "*", "/" and "%", and apply the resulting
 formula to the underlying accounts for this mapping)
- Action menu (edit and delete options are available only for user created mapping entries)

The Financial Element Mapping summary screen displays the Seeded Financial Elements as well as the new user defined entries.



Financial Element Mapping

Discrete Profitability Analytics Cloud Service

Financial Element Mapping

Discrete Profitability Analytics Cloud Service

Related Search

Related

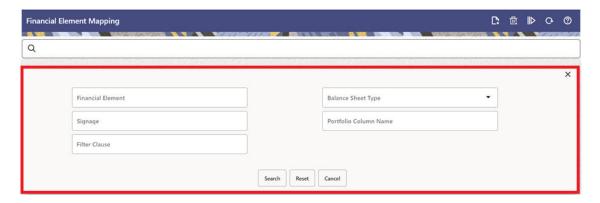
BASI, RISK, CHARGE, CREDIT CHARGE, GREDIT, DODGT MAGRE, DISC, PREM, CHG, CR CTHER, ADD, CAL, CHARGE, CREDIT FRICING, INC., CHARGE, CREDIT

Figure 6-2 Financial Elements Summary Screen

6.3.1.1 Search

There are two Search options provided to search the Financial Element Mapping on the summary page.

Figure 6-3 Search Option Collapsed



To search the Financial Element Mapping, follow these steps:

- 1. Click the **Search** icon on the Search pane to collapse (display) the Criteria window.
- 2. Enter the Financial Element Name, and/or Signage, and/or Filter Clause, and/or Balance Sheet Type, and/or Portfolio Column Name, and then click Search to display the Financial Element Mapping that matches the criteria. The search results are displayed in a table containing all the Financial Element Mappings that meet the search criteria.
- Click Reset to remove the criteria on the Search window and start with new criteria definition.
- Click Cancel to exit from search pane and refresh the window.
- The other method to search a Financial Element Mapping is using the Field Search option. The Field Search is an inline wildcard search that allows you to enter value partially



or fully and the row that match the entered string in any of the columns is fetched in the Summary table.

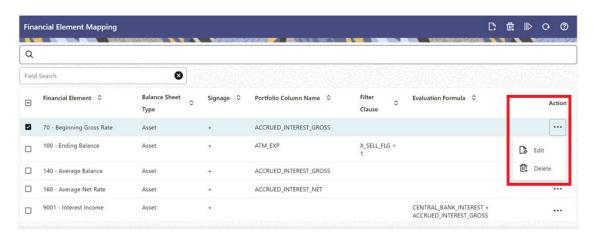
Figure 6-4 Field Search



6.3.1.2 Financial Element Mapping Summary Table

This section of the screen presents a table containing the already created Financial Element Mappings.

Figure 6-5 Financial Element Mapping Summary Table – Action Column



The Financial Element Mapping summary table displays the following details:

- Financial Element
- Balance Sheet Type
- Signage
- Portfolio Column Name
- Filter Clause
- Evaluation Formula
- Action

The Action column on the Financial Element Mapping Summary screen allows you to perform different functions:

- Edit: Click the Edit icon to modify a previously saved Financial Element Mapping as the user is launched into the Financial Element Mapping Detail screen in edit mode.
- **Delete**: Click Delete to delete the Financial Element Mapping you have selected.



6.3.2 Adding a Financial Element Mapping

This procedure describes the steps to create Financial Elements, and then map the segments to the segment types as a part of the profitability insight analysis.

To do the segmentation mapping, follow these steps:

 To open the Financial Element Mapping screen, navigate to Profitability Analytics Cloud, select Setup Configurations, and then select Financial Element Mapping.

Figure 6-6 Financial Element Mapping - Add



2. Click Add to open the Financial Element Mapping Definition screen.

Figure 6-7 Financial Element Mapping – Definition Screen



- In the Financial Element Details section of the screen, the following elements are displayed for the user selection:
 - **Financial Element Member**: This is the drop-down list for Financial Element Member selection.
 - **Balance Sheet Type**: The user can define this mapping either for Asset or Liability or simply not assign a value to apply the mapping to both.
 - Signage: The user can assign either a negative or a positive signage to the portfolio column to be used for the mapping definition.
 - Portfolio Column Name: The user can pick up the corresponding Portfolio column to be used for the mapping definition and attaching it to the previously selected Financial Element Member.
 - Filter: By clicking on the three right hand side dots, the user can select one or more
 values out of all the portfolio columns and apply filtering to the underlying accounts for
 this mapping. For example, X_SELL_FLG = 1.

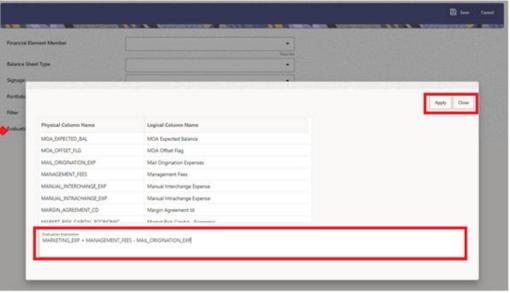


E Save Balance Sheet Type Physical Column Name Logical Column Name Portfolio Column Name IKANDPEK, KAIE TRANSFER_RATE_ALT Transfer Rate Alternate Output CHARGE_CREDIT_TRATE Transfer Rate Charge Credit Evaluation Expression TRAN, RATE, REM, TERM TRAN, RATE, REM, TERM, ALT Transfer Rate Remaining Term Alternate Output CHARGE_CREDIT_TRATE_REM_TERM Transfer Rate Remaining Term Charge Credit VULNERABILITY_CAT_CD Vulnerability Category Id X SELL FLG X_SELL_FLG = 1

Figure 6-8 Financial Element Mapping - Filter Formula

Evaluation Expression: By clicking on the three right hand side dots, the user can select one or more portfolio columns to be used to compute a calculation, leveraging math operators as "+", "-", "*", "/" and "%", and apply the resulting formula to the underlying accounts for this mapping. For example, MARKETING_EXP + MANAGEMENT_FEES - MAIL_ORIGINATION_EXP.

Figure 6-9 Financial Element Mapping – Evaluation Expression



4. Click Apply.

6.4 Segmentation Mapping

Segmentation involves the grouping of customer accounts based on different account level dimensions and the specified criteria on them.

Users can select from a set of dimensions to create segments for different Segment types in the Segmentation Mapping UI. Accounts grouped together in a particular segment, are expected to behave, and perform similarly. The objective of segmentation is to achieve easier cross sell and upsell and enhance value the customer drives for the bank.

6.4.1 Navigation in the Summary Screen

When you navigate to the Segmentation Mapping Summary screen, the Segments stored within your current Default Folder are displayed in this screen.

The Segmentation Mapping screen is divided under two sections: the Search section and the Summary table. The title bar of the summary page provides the following actions for the user:

Figure 6-10 Segmentation Mapping Summary Screen - Title Bar



The Action icons are as follows:

Figure 6-11 Segmentation Mapping Summary Screen - Action Icons



- Add: Click the Add icon to create a new Segment. The Add icon is disabled if any of the rows in the summary table are selected.
- Multiple Delete: Select one or more Segments in the summary table and click the Delete icon to delete the selected Segments.
- Refresh: Click this icon to refresh the summary page.
- **Help**: Click this icon to view the Segmentation Mapping help page.

6.4.1.1 Search

There are two Search options provided to search the Segmentation Mapping on the summary page.

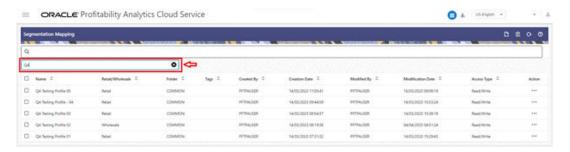
Figure 6-12 Summary Screen Search Option Collapsed



To search the Segmentation Mapping, follow these steps:

- 1. Click the **Search** icon on the Search pane to collapse (display) the Criteria window.
- Enter the Segmentation Mapping Name and/or Retail/Wholesale flag and/or Folder and/or Created By and click Search to display the Segmentation Mapping that matches the criteria.
 - The search results are displayed in a table containing all the Segmentation Mappings that meet the search criteria.
- Click Reset to remove the criteria on the Search window and start with new criteria definition.
- 4. Click **Cancel** to exit from the Search pane and refresh the window.
- 5. The other method to search a Segmentation Mapping is using the **Field Search** option. The Field Search is an inline wildcard search that allows you to enter value partially or fully and the row that match the entered string in any of the columns is fetched in the Summary table.

Figure 6-13 Segmentation Mapping- Field Search

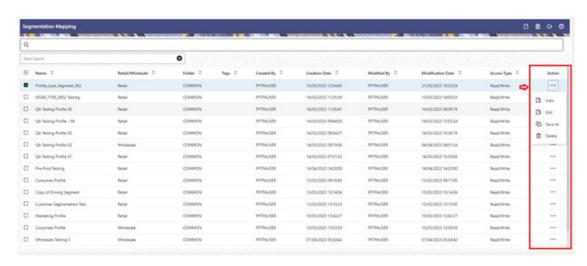


6.4.1.2 Segmentation Mapping Summary Table

This section of the screen presents a table containing the already created Segmentation Mappings.



Figure 6-14 Segmentation Summary Table – Action Column



The Segmentation Mapping summary table displays the following details:

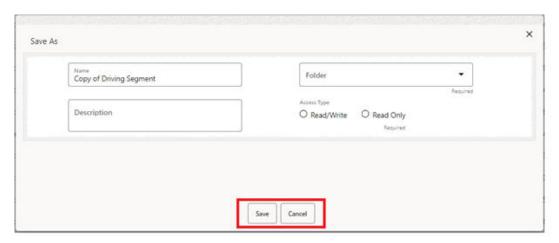
- Name
- Retail/Wholesale
- Folder
- Tags
- · Created By
- Creation Date
- Modified By
- Modification Date
- Access Type
- Action

The Action column on the Segmentation Mapping summary screen allows you to perform different functions:

- View: Click the View icon to view the contents of a Segmentation Mapping on a Read-only basis as the user is launched into the Segmentation Mapping summary screen in view mode.
- **Edit**: Click the Edit icon to modify a previously saved Segmentation Mapping as the user is launched into the Segmentation Mapping Detail screen in edit mode.
- Save As: Click on this option to create a copy of an existing Segmentation Mapping. The Save As pop-up window allows you to enter the Name, Description, Folder, and Access Type Details for the copy model.



Figure 6-15 Save As Dialog Box



• **Delete**: Click Delete to delete the Segmentation Mapping you have selected.

6.4.2 Creating a Segmentation Mapping

This procedure describes the steps to create segments, and then map the segments to the segment types as a part of the profitability insight analysis.

To do the Segmentation Mapping, follow these steps:

1. To open the Segmentation screen, navigate to **Profitability Analytics Cloud**, select **Setup Configurations**, and then select **Segmentation Mapping**.

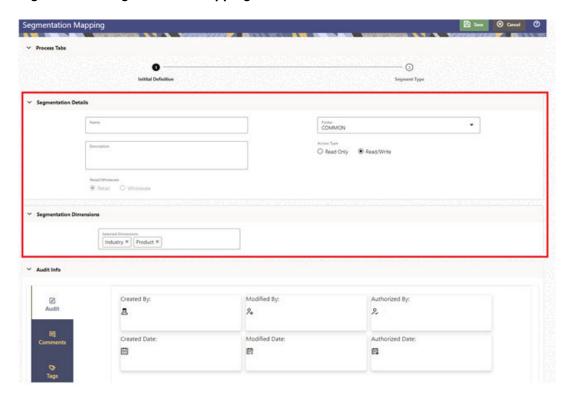
Figure 6-16 Segmentation Mapping – Add



2. Click **Add** to open the Segmentation Mapping Definition screen.



Figure 6-17 Segmentation Mapping - Add



- 3. In the **Segmentation Details** section of the screen, enter the following details:
 - Name: Name of the segment.
 - **Description**: A description for the segment.

You can create segments for Retail or Wholesale Customer types. The various details you enter for these customer types may differ.



If you do not specify the segment Retail or Wholesale, the service will default it to Retail.

- 4. In the Segmentation Dimensions section of the screen, select the relevant Segmentation Dimension. The drop-down list displays a list of segments based on which you create different segments within your segment type.
 - Retail Customer Dimensions:
 - Age
 - Profession
 - Customer Income
 - Product
 - Net Income Before Taxes
 - Asset Balance
 - Credit Score
 - No. of Transactions



- Average Transaction Amount
- Number of Accounts

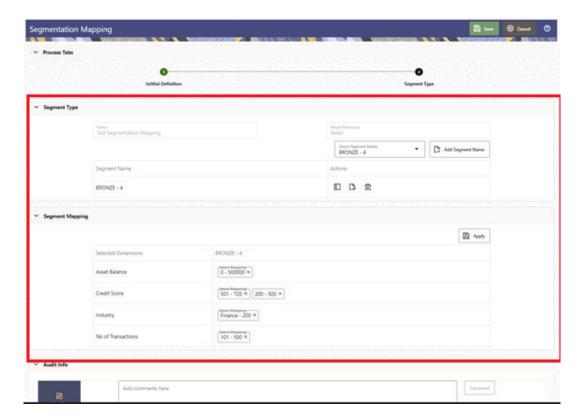
Wholesale Customer Dimensions:

- Age of Corporate
- Industry
- Customer Income
- Product
- Net Income Before Taxes
- Asset Balance
- Credit Rating
- No. of Transactions
- Average Transaction Amount
- Number of Accounts



This is the seeded list as of now and will be open to amendments in the future to accommodate requests from banks to add more dimensions to support relevant use cases.

Figure 6-18 Segmentation Mapping - Segment Type





Process Table

Process Table

Supposed Type

Supposed Type

Supposed Type

Supposed Type

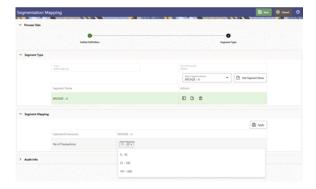
Supposed Mapping

Supposed Map

Figure 6-19 Segmentation Mapping - Segment Type

- Click Add Segment Name after selecting your Segment Name. You can select multiple Segment Names and add them to your Segment Name list.
 - At this point, the **Actions** menu is activated. You can select to do the following actions to the Segment Name/s you added:
 - View
 - Edit
 - Delete
- To assign values to the Dimension/s you previously selected, a list of value bands or dimension members, you require to click **Edit** for each of the Segment Names you have added to the list.

Figure 6-20 Segmentation Mapping



Click Apply. Repeat the steps for assigning the new Dimension Name values to the other Segments available in your list. A confirmation message *Mapping is applied* is displayed.

- At any point of time, you can edit the Assignment by clicking the Edit button on a given Segment.
- Click Save.
 This returns to the Segmentation Mapping screen and the newly added Segmentation Mapping is displayed.

6.5 Line Item Display Order

The Line Item Display Order UI allows the user to customize the display order of the Income Statement line items. This helps users to maintain the display order on the Financial Element hierarchies for both out-of-the-box hierarchies and custom hierarchies at the BI layer required by Profitability Analytics. This display order holds good for both top-down and bottom-up reporting and enforces a a particular display order for the Income Statement and Balance sheet hierarchies.

To open the Line Item Display Order, from the LHS menu, select **Profitability Analytics Cloud**, select **Setup Configurations**, and then select **Line Item Display Order**.

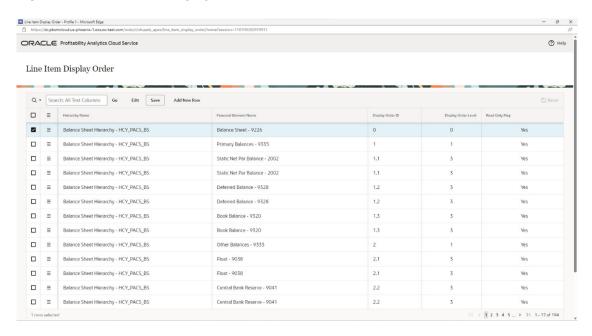


Figure 6-21 Line Item Display Order

The summary screen displays a list and order of parameters that are already available out of the box. You can search an edit the Line Items with Hierarchy Name, Financial Element Name, Display Order ID, Display Order Level, and Read Only Flag.

You can click on each header to filter the line items and display the items based on a choise.

Figure 6-22 Header Options



For example, you can click **Hierarchy Name** to open a filter where you can select the available options. Then click any or all of the other header names, define the search criteria and then click Go to display the lines items.

You can add a new row to the summary list by clicking **Add New Row**. This inserts a new row in the summary table and allows you to select the Hierarchy Name, Financial Element Name, Display Order ID, Display Order Level, and/or Read Only Flag.

Row Actions

The summary page allows to change the view. You can select a row and click the **Row Actions** that are:

 Single Row View: For the rows where Read Only Flag is set to Yes, you cannot edit or revert the changes. However, you view them in Single Row View.

Figure 6-23 Single Row View

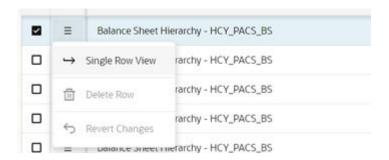
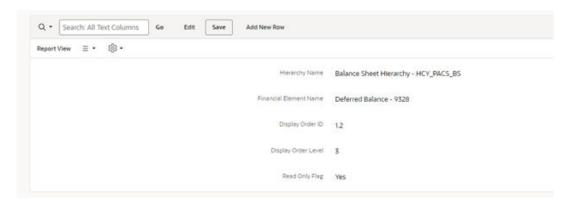


Figure 6-24 Single Row View Details



- Delete Row: Is possible only for user-defined line items.
- Revert Changes: Is possible only for user-define line items.

Report View - Change Menu

From the Report View – Change Menu, you can add a new row, create a duplicate of an exiting line item, delete a line item, refresh the view, and revert the changes of an existing line item.

Report View - Settings Menu

The Settings Menu allows you to:

• Exclude the null values from the summary page.



Displayed Columns

Adding a New Row

To add a new row:

Click Add a New Row in the summary page.

Figure 6-25 Add a New Row



- 2. Select of enter the following:
 - **Hierarchy Name** (mandatory): Select a Balance Sheet Hierarchy or Income Statement Hierarchy driver. You can create a Hierarchy and will be able to see on that selection.
 - Financial Element Name (mandatory): Enter the name for the Financial Element. You
 must select only a single value.
 - Display Order ID: Enter the Order ID for the Financial Element which you want the Balance Sheet Hierarchy or Income Statement or any other custom hierarchy to be displayed on the Summary screen. For example, refer to the Display Order ID of the seeded hierarchies.
 - Display Order Level: Enter the Level for the Financial Element that you want to place in the Balance Sheet and/or Income Statement or any other custom hierarchy. For example, refer to the Display Order Level of the seeded hierarchies.
 - **Read Only Flag**: This is by default Yes for all the seeded hierarchy displayed line item values. For custom line item display orders the default value is always set to No, so that you can always change the custom line items display entries at later stage.
- 3. Click **Save** to display the new Hierarchy Name in the Summary screen.

For Income Statement and Balance Sheet Hierarchies, or any other Hierarchy created out of Financial Element dimension, a Financial Element carrying a percentage value cannot be added as a child, Sibling to a child or Leaf under Parent/ Child/ Sibling in the Hierarchy. Users are expected to be mindful not to map a portfolio column to a FE denoting a rate or apply an expression, where a divisor is used in a way that the column value effectively becomes a rate, thus preventing a meaningful roll-up to the node of the hierarchy.

6.6 Geography Mapping

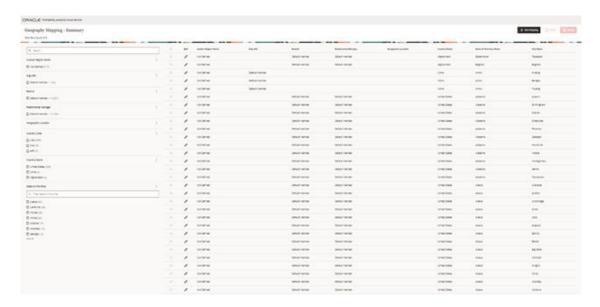
The Geography Mapping UI allows you to render the Org Unit, Branch, Relationship Manager and corresponding Geographic Locations onto the OOTB Business Analytics and account entries.

The Geography information is seeded for your consumption. You can select a geographic location and map it to the key dimensions of the Profitability Analytics Cloud Service.

This section describes the procedure to map the Geographies to key dimensions mentioned above.

To navigate to the Geography Mapping – Summary screen, from the LHS Menu, select **Setup Configurations**, and then select **Geography Mapping**.

Figure 6-26 Geography Mapping - Summary screen



The LHS of the summary screen displays the following elements to be used as selection filters to navigate end user-defined mappings:

- Customer Region Name
- Org Unit
- Branch
- Relationship Manager
- Geographic Location
- Country Code
- State or Province

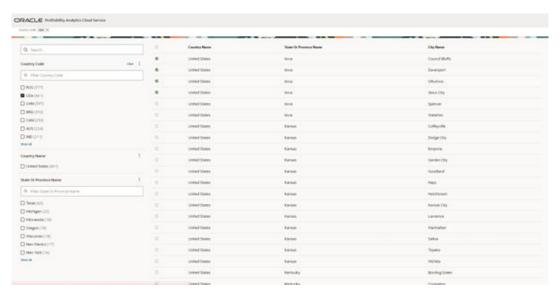
Creating a New Mapping

To create a new mapping:

1. Click **New Mapping** on the Summary screen. The World Region – New Mapping screen is displayed.



Figure 6-27 World Region - New Mapping

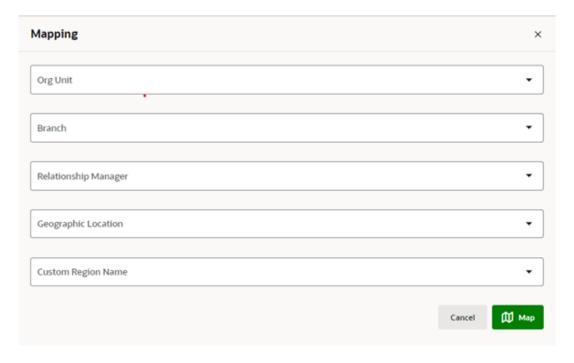


- Select the relevant Country Code.
 The summary screen area displays all the cities with the Province and City Names.
- 3. Select the relevant County Names and for mapping.



Click the Map button. The Mapping pop-up window is displayed.

Figure 6-28 Mapping





- 5. Select any one or all of the following details:
 - Org Unit
 - Branch
 - Relationship Manager
 - Geographic Location
- 6. Select the **Customer Region Name**. You can select from the options in the available values or enter a custom Region Name.
- Click Map.

The newly create mapping details are displayed in the Summary page.

Unmapping a Geography Mapping

To unmap a previous mapped Geography:

- 1. Navigate to the Geography Mapping Summary screen.
- 2. Select any of the following:
 - Custom Region Name
 - Org Unit
 - Branch
 - Relationship Manager
 - Geographic Location
 - Country Code
 - · State of Province

The available mappings are displayed in the screen.

- Select the mapping that you want to unmap. You can select one or multiple or all the mappings.
- Click the Unmap button.
 After confirming, the selected mapping will be unmapped and removed from the Summary screen.

6.7 Metrics Generator

The Metric Generator UI allows you to create custom profitability or other metrics that are not available out of the box in the Profitability Analytics Cloud Service BI dashboards.



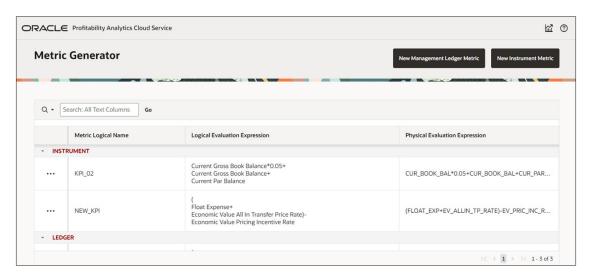
The Metric Generator flow helps you to define new metrics for Management Ledger and Instruments. After you execute the corresponding Runchart, you will be able to retrieve a sample report by clicking the Analytics button on the Metric Generator - Summary screen. The other option to generate the sample Report is to navigate from LHS menu. You will need to select Custom Metrics from the Analytics menu.

To navigate to the Metric Generator – Summary screen, from the LHS Menu, select **Setup Configurations**, and then select **Metrics Generator**.



The Metrics Generator summary screen is displayed.

Figure 6-29 Metrics Generator Summary Screen



This screen displays the following elements to be used as selection filters to navigate end user-defined mappings:

- Metric Logical Name
- Logical Evaluation Expression
- Physical Evaluation Expression

For this summary screen, you can do the following:

- Search
- Edit/Delete
- Access the Custom Metric Report

Search a Metric

To search for a Metric:

- Navigate to the Metric Generator Summary screen.
- Click Select Columns to Search and select any of the following:
 - All Text Columns
 - Metric Logical Name
 - Logical Evaluation Expression
 - Physical Evaluation Expression
 - Table Source
- Enter the search phrase in the Search text box and then click Go. The screen displays the metric that match the search criteria.

Edit/Delete a Metric

To edit or delete a metric:



- 1. Navigate to the Metric Generator Summary screen.
- 2. Select an Instrument or Ledger that you want to edit or delete.
- 3. Click the Actions menu and select Edit or Delete.
 - If you select **Edit**, the selected Intrument or Ledger is opened in the definition mode. You can edit the relevant details and save the details.
 - If you select **Delete**, a confirmation message is displayed. Select **OK** to delete.

Access to Custom Metric Report

To access the Custom Metric Report, click the Micon.

6.7.1 Creating a New Management Ledger Metric

To create a new Management Ledger Metric:

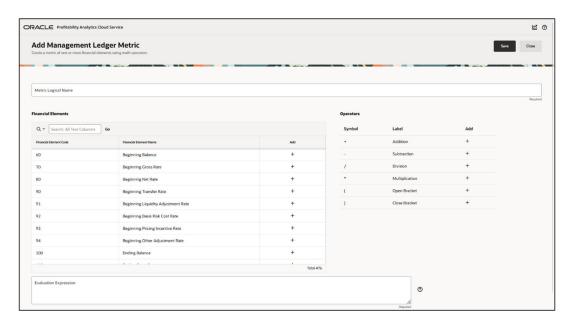
1. Click Add New Management Ledger Metric on the Summary screen.

Figure 6-30 Metric Generator New Management Ledger Metric



This will take you to the next screen to define the custom metric and input the evaluation expression.

Figure 6-31 Add Management Ledger Metric

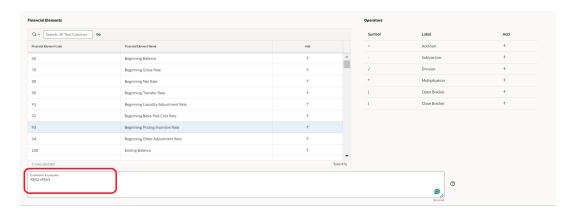


- 2. Enter the Metric Logical Name of the custom metric as it will appear in the reports.
- Select any one of the following details:



- Financial Element Code
- Financial Element Name
- Operator

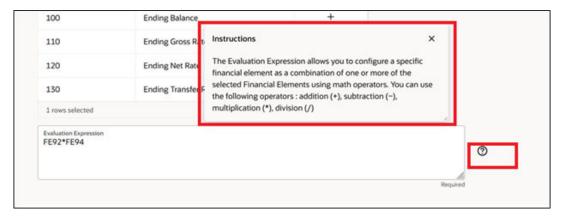
Figure 6-32 Financial Elements, Operators, and Evaluation Expression



Evaluation Expression is the box where you create the calculation using Financial Elements and mathematical operators.

You can refer to the **Help** button support with the Instructions on how to configure the metric.

Figure 6-33 Evaluation Expression Help button



4. Click Save.

6.7.2 Creating a New Instrument Metric

The process to create a new Instrument Metric from the portfolio tables is very similar to that of creating a New Management Ledger Metric.

To create a New Instrument Metric:

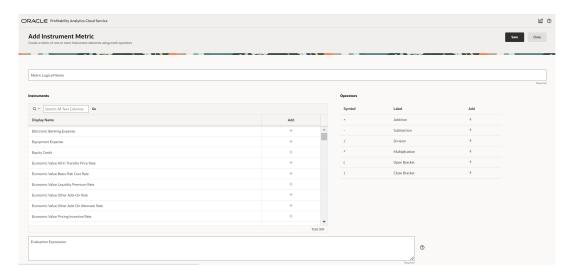
1. Click **New Instrument Metric** on the Summary screen.

Figure 6-34 New Instrument Metric



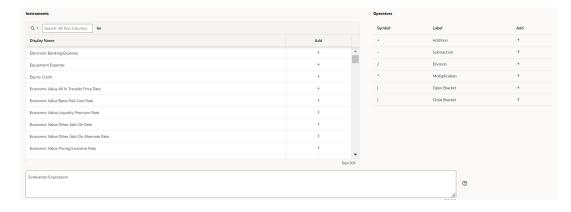
This will take you to the next screen to define the custom metric and input the evaluation expression.

Figure 6-35 Add Instrument Metric



- 2. Enter the Metric Logical Name.
- 3. Select any one of the following details:
 - Instruments
 - Evaluation Expression
 - Operator

Figure 6-36 Instrument Metric Selection



Evaluation Expression is the box where you create the calculation using Instruments and mathematical operators.



You can refer to the Help button support with the Instructions on how to configure the metric.

4. Click Save.



7

Operations

This chapter covers the following topics:

- Scheduler Services: The Scheduler Service is a service that automates behind-the-scenes
 work that is necessary to sustain various enterprise applications and functionalities. This
 automation helps the applications to control unattended background jobs program
 execution.
- 2. Object Migration: Object Migration is the process of defining, exporting and importing objects across environments (prod and non-prod)/instances. This feature also facilitates to migrate within the same setup or different setups.
- Changing Object Ownership: This topic lists the instructions to request the change of object ownership.

7.1 Scheduler Services

Scheduler Services automates behind-the-scenes work that is necessary to sustain various enterprise applications and their operations. Using Scheduler Services, applications can control unattended background jobs program execution.

Scheduler Service operations:

- Define Batch A Batch contains a group of background tasks that are executed together, on a specific date and time during which the resources are available for batch processing.
- Define Task A batch job is a piece of a program meant to meet specific and businesscritical functions. The program is a REST API used in a batch.
- Schedule Batch Schedule batch jobs, to automate tasks that are processed on a regular basis but do not need to occur during the day or require human intervention. Jobs that happen on a regular basis are incorporated into batch schedules. You can also edit preconditions for batch group execution and pause scheduled executions.
- Monitor Batch Track and access the real-time feedback on the status of the current encoding job and lists the jobs pending in the batch. You can also Cancel or Restart the service when required.
- Scheduler Service Dashboard The Scheduler Service Dashboard gives the complete status of the Executed Runs, Successful Runs, Failed Runs, Ongoing Runs, Interrupted Runs, and the Upcoming Runs.

7.1.1 Accessing Scheduler Services

Using the Scheduler Services, you can create and execute batches and schedules to run various tasks and also monitor them.

To access Scheduler Services:

 Log in to the Service Console and from the left navigation pane in the Service console, click Operations and Processes > Scheduler.

7.1.2 User Roles and Functions

You require specific user roles and functions, to use Scheduler Services, and to create and manage batches and tasks.

Table 7-1 User Role Codes and Function Codes

Role Codes	Function Codes
BATCH_READ	BATCH_ADD
BATCH_WRITE	BATCH_DEL
BATCH_ADV	BATCH_MOD
BATCH_AUTH	BATCH_VIEW
BATCH_OPER	BATCH_SCH
BATCH_MAINT	BATCH_SUMM
	BATCH_AUTH
	BATCH_PURGE
	BATCH_MON
	BATCH_EXEC
	BATCH_COPY
	LOGVIEW

7.1.3 Define Batch

You can use batch and batch groups to group a set of background tasks to be executed together.

A Batch contains a group of background tasks that are executed together, on a specific date and time during which the resources are available for batch processing.

Batch Groups consist of batches that need to be executed together. Batch groups help to process date and time-based background tasks based on a defined period when resources are available for batch processing.

To access the list of existing batches and batch groups click **Batch** or **Batch Group** tab respectively. You can also view following details related to each batch/batch group.

- Batch ID The unique alphanumeric code assigned to a specific batch/batch group.
- Name The unique batch/batch group name.
- Description The brief description of the batch/batch group.
- Last Modified The last modified By user, date and time details.

To search for a specific batch/batch group, enter the keywords in the **Search** field and click **Search**. You can search based on **Name**, **Code**, and **Description**. You can also sort the batch/batch group list based on **Code**, **Name**, **Created Date**, and **Last Modified Date**.

Perform one of the following operations, to manage batch/batch group, from the **Scheduler Service (Define Batch)** page.

- Create New Batch/Batch Group
- Edit a Batch/Batch Group
- Copy a Batch/Batch Group



Delete a Batch/Batch Group

7.1.3.1 Creating a Batch/Batch Group

Create a batch/batch group, to execute a group of background tasks together, on a specific date and time, when the resources are available for batch processing.

To create a batch/batch group from the **Scheduler Service (Define Batch)**:

- 1. In the Create Batch page, enter the following Batch Details:
 - Code Enter a unique alphanumeric code for the new batch/batch group.
 The code must start with alphabets, should not contain any spaces, and must not exceed 60 characters. Special characters are not allowed except underscore ().
 - Name Enter a unique name for the new batch/batch group.

 The name should start with alphabets, should not contain any spaces, and must not exceed 60 characters. Special characters are not allowed except underscore (_).
 - Description The description/details for the batch/batch group.
 The description should start with an alphabet and must not exceed 250 characters.
 - Select **Batch** to create a new batch or **Batch Group** to create a new batch group.
 - For new batch groups, select the **Batches** to be added to the batch group.
- 2. For new batches, after entering the Batch Details, provide the following batch parameters.

From the **Batch Parameters** pane, click **Add** to add a new batch parameter, in the following format.

- Parameter Name A valid parameter name for the new Batch parameter.
- Parameter Value A valid parameter value required for Batch execution.



Enclose the parameter Value for a Run time with \$ symbol. For example, \$paramName\$.

By default, **\$FICMISDATE\$** and **\$BATCHRUNID\$** are added as batch Parameters.



\$RUNSKEY\$ parameter is added only if you are creating a new batch or copying from an existing batch. It is not supported for existing batches.

To delete a batch parameter, click **Delete** next to that parameter details.

- 3. Enter the following **Header Parameter** details:
 - Parameter Name A valid parameter name for the new header parameter.
 - Parameter Value A valid parameter value required for batch execution.
- Click Save. The new batch/batch group is created and displayed in the Scheduler Services (Define Batch) page.



7.1.3.2 Editing a Batch/Batch Group

Edit the batch/batch group details such as **Description** and also add new **Batch Parameters** to a batch, along with adding new **batches** to the batch group.

Seeded batches cannot be edited.

To modify a batch/batch group:

- In the Scheduler Services (Define Batch) page, click Edit corresponding to the batch/ batch group you want to modify.
- 2. Modify the required details, in the Edit Batch page.
- 3. Click **Save** to save the edited batch/batch group.

The edited batch will be updated in the Scheduler Services (Define Batch) page.

7.1.3.3 Copying a Batch/Batch Group

Copy a batch/batch group that you want to clone to create a new batch/batch group.

To copy a batch/batch group:

- 1. In the **Scheduler Services (Define Batch)** page, click **Copy** corresponding to the batch that you want to copy.
- In the Copy Batch page, modify the required Batch details to create a new batch/batch group.
- 3. Click Save to add the copied batch to the Scheduler Services (Define Batch) page.

7.1.3.4 Deleting a Batch/Batch Group

Delete a batch/batch group that is no longer required in the system from the Define Batch page.



You cannot delete seeded batches.

To delete a batch/batch group:

- 1. From the **Scheduler Services (Define Batch)** page, click **Delete** corresponding to the batch/batch group you want to delete.
- 2. Click **OK** to confirm deletion.



After confirmation, any active schedules associated with the batch will also be deleted.



7.1.4 Define Tasks

The Define Tasks page lists tasks associated with a specific Batch Definition. You can create new tasks, and edit or delete existing tasks.

To access the **Define Task** page:

 Select Batch/Batch Group from the drop-down list and select the particular batch/batch group to access the list of tasks associated with it.

You can view the following details related to each task:

- Task ID The unique identifier for the task.
- Name The name of the task..
- Parent Task The parent task associated with the task.
- **Component** The seeded/custom component associated with the task.
- Created Date The task creation date.
- Last Modified The last modification date.

To search for a specific task, enter the keywords in the **Search** field and click **Search**. You can search based on the **Task Name**, **Code** and **Description**. You can also sort the Task list based on **Code**, **Name**, **Precedence**, **Component**, **Created Date**, and **Last Modified Date**.

Using the **Preview** option, you can view the complete task execution sequence for a specific batch/batch group.

Perform the following operations to manage a Task, from the **Scheduler Service (Define Task)** page.

- Add a task
- Modify a task
- Define a task precedence
- Delete a task

7.1.4.1 Adding a Task

Add new tasks to a selected Batch Definition.

To add new task:

- In the Scheduler Service (Define Task), select the Batch for which you want to add a new task from the drop-down list.
- 2. Click **Actions** on the page and then click **Add** to access the **Add Task** page.
- 3. Enter the following details:
 - Task Code Enter a unique alphanumeric code for the new task.
 The code must begin with letters, should not include spaces, and has a maximum limit of 60 characters. Special characters except underscore (_) are not allowed.
 - Task Name Enter a unique name for the new task.
 The name should start with letters, not contain spaces, and have a maximum limit of 60 characters. Special characters except underscore () are not allowed.
 - Task Description The description/details for the task.



The description should begin with a letter and not exceed 250 characters. Avoid using phrases like "Select From" or "Delete From" in the description.

- Task Type Select the task type from the drop-down list.
- Component Select the custom or the seeded component associated with the task.
- 4. By default, all Batch Level Parameters are added and enabled as task parameters in the **Task Parameters** pane.

Note:

You can edit the parameters only for custom components.

- Enter the Parameter name in the Param Name field.
- b. Enter the Parameter value in the Param Value field.

To delete a parameter, click on **Delete** next to the respective parameter.

5. Click **Save** to add the new task to task summary in the **Define Task** page.

Note:

Sync task will remain active if execution time is more than 15 minutes at target service and till acknowledge status is generated from target API after the execution.

7.1.4.2 Modifying a Task

Modify details such as Task Description and Task Type in existing tasks.

You can also add a new task parameter and enable or disable existing task parameters.

To modify a task:

- From the Define Task page, select the Batch to modify the task details from the drop-down list
- Click Edit corresponding to the Task you want to modify.
- 3. Modify the required Task Details, in the **Edit Task** page.
- Click Save to update the changes.

The modified task is added to the **Define Task** page.

7.1.4.3 Define Task Precedence

Task Precedence indicates the execution-flow of a batch. Task Precedence Value helps to determine the order in which the specific tasks of a batch are executed.

For example, consider a Batch consisting of four tasks. The first three tasks lack define precedence and hence will be executed simultaneously during batch execution. However, Task 4 has a precedence value as Task 1, indicating that Task 4 is executed only after the successful completion of Task 1.



You can set Task Precedence between Tasks or define to run a Task after a set of other tasks. While, multiple tasks can be executed simultaneously, cyclical execution is not permitted. Tasks without defined precedence execute immediately upon Batch Execution.

Note:

The **Task Precedence** option is disabled if a batch has only one associated task.

To define task precedence:

- Click Add or Remove Precedence corresponding to the task requiring precedence, to access the Precedence Mapping list.
 - a. Select a batch to execute before the current task, from the Available Tasks pane and click Move Selected.

To move all the batches, click Move All.

b. To remove a batch from the task precedence sequence, select the task from the Selected Tasks pane and click Remove.

To remove all the selected batches, click Remove All.

- Click Save to update Task Precedence in the batches.
- 3. Click **Preview** to view the precedence information.

7.1.4.4 Deleting a Task

Remove any tasks that that are no longer required in the system, from a Batch Definition.

To delete a task:

- From the Define Task page, select the Batch from the drop-down list.
- Click Delete corresponding to the Task you want to delete.
- 3. Click **OK** in the confirmation dialog to confirm deletion.

7.1.5 Managing Batch/Batch Group Executions

Schedule Batch enables users to manage batch/batch group executions.

All the batch/batch group schedules are listed. You can sort this list based on code, name, Task Precedence, Components, and dates, to access a specific schedule.

From the **Schedule Batch** page, you can perform the following operations related to the execution and scheduling of batches/batch groups

- Execute batch/batch groups instantaneously
- Edit dynamic parameters
- Automate batch/batch group executions using the various scheduling options
- Re-run a batch/batch group execution
- Re-start a batch/batch group execution



7.1.5.1 Execute Batch/Batch Group

Use the Execute Batch to run a batch/batch group instantaneously.

To execute a Batch/Batch Group:

- In the Schedule Batch page, select Batch or Batch Group to execute from the dropdown list.
- Select the Batch /Batch Group for execution.
- Click Execute to access the Execution Schedule page.
- Click Exclude Tasks to add/remove tasks from the execution list.
- 5. Click **Hold Tasks** to pause/release tasks during execution.
- 6. Click Edit Dynamic Parameters to modify the dynamic parameters.
- Click Execute.

The Batch is executed, and the associated unique Run ID is displayed in the format <BATCH CODE> <MIS DATE> <ITERATION-COUNT>.

You can always click preview to view the PMF process sequence used to execute the selected batch/batchgroup.

7.1.5.2 Adding Pre-Conditions For Batch Group Execution

Pre-conditions help to execute batches associated with a batch group, on specific days, based on the set frequency and selected days.

You can set pre-conditions for a batch group, to execute specific batches on selected days based on the set frequency interval. This enables to wisely use the available resources for execution.

To set pre-conditions for batch group execution:

- 1. Click **Schedule** from the Header panel.
- 2. In the Schedule Batch page, select Batch Group and the Batch Group Name.
- 3. Click **Pre-Conditions** to set the pre-conditions for task execution.
- 4. Select the **Batch** to set the pre-condition.
- 5. Set the execution frequency to Weekly, Monthly, or specific interval and set one of the following conditions:
 - Weekly Select the weekdays to execute the batch. You can select multiple days.
 - Monthly Select the days of the month to execute the batch. You can select multiple days.
 - Interval Select the recurrence frequency to execute the batch.
- Click Add to add another pre-condition.
- 7. After adding all the required pre-conditions, Click **Save**.

The pre-conditions are saved and the batch group will be executed based on the set preconditions.





The batch group is always get executed based on the pre-condition and any schedule associated with the batch group will not be considered for processing.

7.1.5.3 Edit Dynamic Parameters

Modify the dynamic parameters set for a batch/batch group.

You can modify the batch parameters, batch header parameters, task parameters, and the task header parameters associated with a batch/batch group.

To edit the dynamic parameters from the **Schedule Batch** page:

- 1. Select **Batch/Batch group** and then select the specific batch/batch group.
- 2. Click **Edit Parameters** to access the **Edit Dynamic Params** page.

You can also edit the dynamic parameters while configuring the scheduling options.

- 3. Click the batch/batch group name to access all the parameters.
- 4. Set the \$BatchDate\$ to set the batch execution date: :
 - Set the batch date to SYSDATE (system date). The batch execution date is set to SYSDATE by default.
 - Toggle and select MISDATE to select a particular batch execution date.
- **5.** Enter **\$BATCHRUNID\$** to set the batch run ID in the format: <BATCH CODE> <MIS DATE> <ITERATION-COUNT>.
- **6.** Edit the batch header parameters and the task parameters.
- 7. Click **Save** to update the batch/batch group parameter values.
- **8.** After updating the changes, execute the batch/batch group or configure the scheduling settings.

7.1.5.4 Scheduling and Automating Batch/Batch Group Execution

Automate batch/batch group execution.

Using the various scheduling options, you can automate batch/batch group execution to run based on the specified scheduling parameters.

To automate batch/batch execution:

- Click Schedule from the Header panel.
- 2. In the **Schedule Batch** page, select from the following options:
 - Once Run only once.
 - Daily Run daily.
 - Weekly Run weekly on selected days and time.
 - Monthly Run monthly on selected days and time.
 - Quarter -Run every quarter on selected days and time.
 - Cron Expression A Cron Expression is a string comprising of six or seven fields separated by white space. Fields can contain any of the allowed values, along with various combinations of the allowed special characters for that field.



To execute a batch/batch group using a Cron expression, enter the Cron Expression for your schedule. For more information about the Cron Expression, click **Information** next to the Cron Expression field.

- 3. Enter the following generic information and the parameters:
 - Batch/Batch Group Batch/batch group for execution.
 - Batch/Batch Group Name The specific batch/batch group to be executed.
 - Schedule Name The unique schedule name.
- 4. Provide the following scheduling parameters based on the selected schedule option.

For Cron Expression based scheduling, enter the required Cron expression.

Table 7-2 Scheduling Options

Details	Once	Daily	Weekly	Monthly	Quarter
Start Date to begin execution.	Yes	Yes	Yes	Yes	Yes
End Date to stop the execution	No	Yes	Yes	Yes	Yes
Run Time to execute the batch/batch group	Yes	Yes	Yes	Yes	Yes
Days of the week you want to execute the batch/batch group. You can select multiple days.			Yes	Yes	Yes
Months of the Year you want to execute the batch/batch group. You can select multiple months.				Yes	Yes
Day of the Month to execute batch/batch group				Yes	Yes
First Months of the Year to calculate the year beginning and each quarter beginning.					Yes
Select Quarters to execute batch/batch group You can select multiple quarters.					Yes
Days of Quarter - Select the days to execute the batch/batch group. You can select first day, mid day, last day, First N days, or last N days					Yes
No. of Days - If you select first N days or last N days, select the number of days to execute the batch/batch group at the beginning or end of the selected quarter					Yes

- 5. Exclude Tasks to add/remove tasks from the execution list.
- **6. Hold Tasks** to pause/release tasks during execution.
- 7. Click **Edit Dynamic Parameters** to modify the dynamic parameters.
- 8. Click **Schedule** to add the new schedule for execution.

You can set pre-conditions to process batch groups. When a batch group has an associated pre-condition, the execution schedule will not be considered for processing.

9. To manage schedules associated with a specific batch:

- In the Select Batch page, select Batch and select the Batch Name to view the associated schedules.
- b. Click View Schedule to access the list of all the schedules associated with the batch.

You can perform the following tasks:

- Click Edit to modify the schedule.
- Click Pause and enter the Start Date and End Date to pause the schedule from execution. Click Add to apply the pause.
 To remove the pause, click Delete next to the specific pause.

7.1.5.5 Re-run Batch/Batch Group

Re-running a batch/batch group facilitates you to run the batch/batch group irrespective of the previous execution state.

When you re-run a batch/batch group that has been previously executed, a new Run ID is generated, and the batch/batch group is executed as if it were a new run.

To re-run a batch::

- 1. Click Schedule Batch from the Header panel.
- 2. In the **Schedule Batch** page, select the **Re-run** tab.
- 3. Select Batch/Batch Group.
- 4. Select the **Batch or Batch group Name** you want to re-run.
- 5. Select the Batch Run ID.
- Click Re-run.

7.1.5.6 Re-start Batch/Batch Group

Re-start a batch/batch group that has not executed successfully or has been explicitly interrupted, canceled, or put on hold during the execution process.

Restarting a batch/batch group enables you to continue execution directly from the point of interruption or failure, allowing you to complete executing the remaining tasks.



Before restarting a batch/batch group, ensure to provide the complete cleanup URL and also to enable invoking the cleanup URL before restarting the execution.

To re-start a batch/batch group:

- Click Schedule Batch from the Header panel.
- 2. From the **Schedule Batch** page, select the **Re-start** tab.
- Select Batch/Batch Group.
- 4. Select the Batch or Batch group you want to schedule daily from the drop-down list.
- 5. Select the **Batch Run ID**.
- 6. Click Re-start.



7.1.6 Monitor Batch/Batch Group

Using Monitor Batch/Batch Group, you can view the status of executed batches/batch groups, along with the tasks details.

Monitoring enables users to track and identify issues at regular intervals, ensuring smoother batch execution. Both a visual representation and a tabular view of the status of each task in the batch are available.

To monitor a batch/batch group:

- 1. Click **Monitor Batch** from the Header panel.
- Select the Batch/Batch Group and the Batch/Batch Group Name to monitor the execution.
- 3. Set Refresh Frequency Time Interval and duration in seconds.

By default, the refresh interval is set to **5 seconds** and duration is set to **5 minutes**. This indicates that the monitor progress will be refreshed every 5 seconds for the next 5 minutes.

The refresh interval ranges between 5 to 60 seconds and the duration ranges between 5 to 180 seconds.

- 4. Select the **MISDATE** to view the list of Batch Run IDs executed on a specific date.
- 5. Select the Batch Run ID you want to monitor.
- 6. Click Start Monitor to view the results in Visualization and List View tabs.

The **Visualization** tab displays execution status graphically, while the **List View** tab provides the details in a tabular form, including:

 Status: Task execution status - Not-Started, On-going, Aborted, Successful, Failed, Interrupted, Excluded and Undefined.



When the task execution status is **Aborted**, the batch execution will still be **On-going**. The task status will be set to **Ongoing**, when it is triggered again.

- Start Time: Task execution start time.
- End Time: Task execution end time.
- Task Details: Mouse-over the task to display its status and details.
- 7. At any point, select **Stop Monitor**, to stop monitoring.

You can download the task execution summary in PDF or Excel, with or without the task logs, from the **Monitor Task** page.



You can download the task execution summary only if the **BATCH_OPER** role is mapped to the **LOGVIEW** function.

(Optional). To rerun, restart, or interrupt execution, click **Actions** and select the required option.

You can also reset the search criteria using Actions.

 (Optional). Click View Execution Parameters adjacent to a batch/batch group, to access the list of tasks and task parameters such as Runskey ID, Misdate, associated with that batch/batch group.

7.1.7 Scheduler Service Dashboard

View the task executions based on the execution status in the Scheduler Service Dashboard.

To access the **Scheduler Service Dashboard** page, from the left Navigation pane in the Service console, click **Operations and Processes** > **Scheduler** > **Dashboard**.

You can access the following details related to batch/batch group execution from the Dashboard:

- The batches/batch groups are categorized based on their execution status Executed Runs, Successful Runs, Failed Runs, Ongoing Runs, Interrupted Runs, and Upcoming Runs tabs. Click the respective tab to view the details of the batches/batch groups based on their execution status. For example, click Ongoing Runs to view the details of the batches that are currently running.
- The run time, schedule name and the MISDATE associated with each batch/batch group.
- The batch execution summary for all the batches executed in the last 7, 30 and 120 days. The summary is displayed in the form of a color-coded bar graph with legend for the various execution statuses.
- To view the list of all task executions associated with a specific batch/batch group, select the required execution status tab, select Batch/Batch Group and select the required batch/ batch group.
- To view the task executions within a specific date range, select the required execution status tab, select Batch/Batch Group and select the required batch/batch group. Specify both the start and end dates.

7.2 Object Migration

Object Migration is the process to define, export and import objects across environments (prod and non-prod)/instances. This feature also facilitates to migrate within the same setup or different setups.

Objects refer to the various metadata definitions defined for various domains. You may want to migrate objects for several reasons such as manage global deployments on multiple environments or to create multiple environments so that you can separate the development, testing, and production processes.

For example, you can use the object migration feature to define PMF process object such as balance computation on your testing environment. After successful testing, you can use this feature to export the object to production/non-production environment.

You can migrate the following object types:

- **Schedule** Schedule provides the instruction to schedule the execution of defined processes. When a schedule is migrated, the associated batch is also migrated.
- **Batch** Batch is a group of jobs that are scheduled to automatically execute at a preset interval of time, without any user's intervention. When a batch is migrated, the batch and the associated pipeline information are also migrated.



- Batch_Group A set of individual batches are consolidated to form a single Batch_Group.
 When we migrate a Batch_Group all the batches, tasks and pipeline information associated with that Batch_Group are also migrated.
- **Pipeline** A pipeline is an embedded data processing engine that runs inside the application to filter, transform, and migrate data on-the-fly. Pipelines are a set of data processing elements called widgets connected in series, where the output of one widget is the input to the next element.
- Threshold The threshold limit associated with set variables values for scenarios in FCCM Cloud Service. These threshold values are set when scenarios are created or installed and can be changed, if required.
- Job Jobs provide set of instructions to execute Workflow Pipelines, based on the set threshold values.
- Roles Roles are used to map functions to a defined set of groups to ensure user access system security.
- Groups Groups are used to map Roles. Specific User Groups can perform only set of functions associated with that group.
- **CM_ADMIN** The CM_ADMIN object type refers to all the case management related admin screens. Under this object type, you can export case management related admin metadata and settings for Business Domain, Case Actions/Statuses, Case Priority, Case Rules, Case System Parameters, Case Types, Jurisdictions and Security Mapping.

7.2.1 Migration Object Types

You can create Object Export and Import definitions for the following object types using Object Export/Import feature.

The Migration object types are categorized as follows:

Asset Liability Management

- Standardized IRRBB Shock
- Static_deterministic_process
- Time_bucket
- Dynamic deterministic process
- Forecast balances
- Multi dimensional balance sheet
- Pricing margin
- Product_characteristics
- Behaviour_pattern_rule
- Discount methods
- Forecast rates
- Prepayment model
- Prepayment_rules
- Transferring_Price_Rules



Cash Flow Edits

- Cash flow edits rule
- Cash_flow_edits

Cash Flow Engine

Cashflow_Process

Common Objects

Batch



Ensure to have BATCH_SUMM, BATCH_VIEW and BATCH_ADD riles to view, export and import batches.

Batch_group

Note:

Ensure to have BATCH_SUMM, BATCH_VIEW and BATCH_ADD riles to view, export and import batches.

- Currency
- Datamodel_extension_dimension
- Data_file_specification
- Dimensions

Note:

Dimension definitions should be migrated before migrating the dependent object definitions. The source and the target dimension of the dependent objects should be the same.

- Expressions
- Filters
- Folder
- Hierarchy



Dimension definitions should be migrated before migrating the Hierarchy associated with it. The Dimension should be the same in both source and target environments.



- Holiday_calendar
- Job
- Pipeline
- Schedule



Ensure to have BATCH_SUMM, BATCH_VIEW and BATCH_ADD riles to view, export and import batches.

Slowly Changing Dimensions

Data Maintenance Interface (DMI)

- Excel Upload
- Data Entry
- Data Exporter



Ensure that the definitions are in **Approved** status before migrating.

Funds Transfer Pricing

- Add-on Rate Rule
- Alternate_Rate_Output_Mapping
- Replicating Portfolio
- Standard_Process

Identity Management

- **Groups** For more information, refer to Groups Summary in Admin Console.
- Roles For more information, refer to Roles Summary in Admin Console

Patterns

- Behaviour_pattern
- Payment_pattern
- Reprice_pattern

Profitability Management

- Allocation Model
- Lookup Table
- Allocation Specification
- Static_Table



Profitability Analytics

- Financial Element Mapping
- Segmentation Mapping
- Line Item Display Order
- · Geography Mapping

Rate Management

- Interest Rates
- Economic_indicator
- Volatility_surface

7.2.2 Accessing Object Export and Object Import Features

Using the Object Export and Import features, you can create Export and Import Object definitions.

To access the Object Export and Import feature, from the left Navigation pane in the PBSM Console, click **Operations and Processes > Object Administration**.

- To access Object Export feature, click Export Object.
- To access Object Import feature, click Import Object.

7.2.3 Object Export Definitions

Object Export Definition is a collection of objects that can be exported across environments.

You can view the list of object export definitions that are already created in the **Object Export Summary**. You can also view the following details about each object definition.

- Name The unique name assigned to the collection when the export definition was created.
- Object Migration Status The export status of a specific object definition.
 - Success Indicates that the export is completed successfully.
 - Failed Indicates that the export was not successful. You can reintiate the migration of the specific object definition.
 - Saved Indicates that the object definition is created successfully and is yet to be exported.
 - In Progress -Indicates that the export is in progress. Once the export is complete, the status will change to Success/Failed.
- Last Modified By The ID of the Last Modified by user who has modified the definition.
 On mouse over, the Last Modified Time and Date are displayed.

To filter the list and view specific Object Definition, use one of the following search options:

To search for a specific Export Object Definition, type the first few letters of the export
definition that you want to search in the Search Box and click Search. The search results
display the names that consist of your search string in the list of available definitions.



- Enter the number of records to be viewed in a single page, in the Records box, at the
 bottom of the page. You can increase or decrease the number of entries that are displayed
 using the up and down arrows.
- You can navigate between pages in the View bar, use the navigation buttons present at the bottom of the page.

7.2.3.1 Creating Export Definitions

You can create export Meta data objects using the System Configuration tab in Admin Console.

For more information about the supported object types, refer to Migration Object Types. Refer to the following steps, to create a migration export object.

- Click Add in the Object Export Summary Page to view the Migration Definition page.
- 2. Enter the following details, in the **Migration Definition** page.
 - **Migration Name**: Enter the code of the export of objects to be migrated definition. This is a unique identifier.
 - **File Name**: The system auto-creates the file name of the objects that can be used to export the definition in the following format:
 - For Business Objects: Migration Name_BO_Time Stamp (MMDDYYY HHMMSS)
 - For Identity Objects: Migration Name_IDM_Time Stamp (MMDDYYY HHMMYY)
- 3. Click Apply to save the details and view the Object Selection Page.
- 4. Click **Add** to include Migration objects to the definition.
- 5. select the required **Object Type** from the Object Types drop-down list.
- Select the objects to be added to the Migrate Definition and click Save, to create a new migration object.

A confirmation message is displayed, when the definition is saved successfully. The new migration definition is listed in the Object Export Summary Page and the status is set to **Saved**.

You can also click **Export**, to export the object.

7.2.3.2 Editing Export Object Definitions

You can edit the Export Object definitions that are not exported and their status is **Saved** or **Failed**.

If the definitions is already exported and the status is set to **Success**, you cannot edit that definition.

To edit an Export Object definition, follow these steps.

 In the Object Export Summary page, highlight the definition and click Menu, and select Edit.

The **Object Selection** page is displayed.

- 2. Modify the following details, if required, and click **Save** to changes.
 - Select the required Object Type from the Object Types drop-down list.
 - Select the objects to be added to/deleted from the definition.
- 3. After adding/deleting all the required objects, click **Save**.



The Export definition is saved successfully and a confirmation message is displayed. The new definition is listed in the Object Export Summary page and the status is set to **Saved**.

4. If you want to Save and Export the Definition, click Export.

7.2.3.3 Exporting Object Definition

After creating the object definitions, you can export them for migrating between environments, using Object Migration (Export) feature.

You can export object definitions in **Saved** or **Failed** state from the object Summary page.Refer to the following steps, to export definitions.

- 1. In the Object Summary Page, highlight the migration definition and click Menu.
- 2. Select **Export** from the menu.

After you export, the following Export status types are displayed:

- Success Indicates that the definition is exported successfully.
- Failed Indicates that the definition was not exported. Right-click and select Export, to reintiate the export process.
- **In Progress** -Indicates that the export is in progress. Once the export is completed, the status will change to Success/Failed.

7.2.3.4 Viewing Export Object Details

Using the **View** option, you can view the list of objects and the dependancies added to an Object definition. You can also view the object details.

- 1. Highlight the Export definition and click Menu.
- Select View. The object types, list of objects and the dependent objects added to the export definition are listed in the left pane.
- 3. Double-click an object to view the object attribute details.

7.2.3.5 View Object Definition Export Log Details

View log facilitates you to view the export log information of the object definition with the migration status.



The View Log page for an object definition with status **Saved** will be empty.

To view the log details of object with migration status **Success** or **Failed**, follow these steps.

- 1. In the Object Export Summary page, mouseover the object definition and click **Menu**.
- Select View Log from the drop-down menu, to access the View Log page.

The migration status of the objects with following details is displayed.

- Object Migration ID The migration ID associated with the definition.
- Object Type The object type of the definition.
- Object Code The object code associated with the definition.



- Creation Date The date of creation of the definition.
- Created By The User Id of the User who created the definition.
- Status The migration status of the definition.
 - Success Indicates that the export migration was completed successfully.
 - Failed Indicates that the export migration did not complete.
 - Export Status Message The complete export status message.

Note:

Export status message currently not supported for GL reconcilation.

3. Click **OK** to close the page, after viewing the log details.

7.2.3.6 Downloading Dump File

You can download the export dump file for exported definitions to a local directory, using Download Dump file option.

The downloaded export dump file can be used to upload objects to a different environment.

Note:

This option is enabled, only if the definition is exported successfully and the **Migration Status** is set to **Success**.

To download a export dump file, refer to the following procedure.

- 1. Mouseover a migrated object and select **Menu**.
- Select Download Dump File from the drop-down menu, to download the associated dump file and store it to the local directory.

7.2.3.7 Deleting Export Object Definition

You can delete only definitions that are set to **Saved** or **Failed** status.

To delete a export object definition, follow these steps.

- In the Object Export Summary page, mouseover the definition to be deleted and click Delete.
- Click Yes to confirm and proceed with the deletion.

7.2.4 Object Import Definitions

Object Import Definitions is a collection of objects that can be imported across environments. .

You can view the list of Object Import Definitions that are already created in the **Object Import Summary**. You can also view the following details about each Object definition.

 Name - The unique name assigned to the collection when the Import definition was created.



- Object Migration Status The import status of a specific Object definition.
 - Success Indicates that the import is completed successfully.
 - Failed Indicates that the import was not successful. You can reintiate the migration of theSpecific Object Definition.
 - Saved Indicates that the Object Definition is created successfully and is yet to be imported.
 - In Progress -Indicates that the import is in progress. Once the import is complete, the status will change to Success/Failed.
- Last Modified By The ID of the Last Modified by user who has modified the definition.
 On mouse over, the Last Modified Time and Date are displayed.

To filter the list and view Specific Object Definition, use one of the following search options.

- To search for a Specific Import Object definition, type the first few letters of the Import
 definition that you want to search in the Search box and click Search. The search results
 display the names that consist of your search string in the list of available definitions.
- Enter the number of records to be viewed in a single page, in the **Records** box, at the bottom of the page. You can increase or decrease the number of entries that are displayed using the up and down arrows.
- You can navigate between pages in the View bar, use the navigation buttons present at the bottom of the page.

7.2.4.1 Creating Object Import Definitions

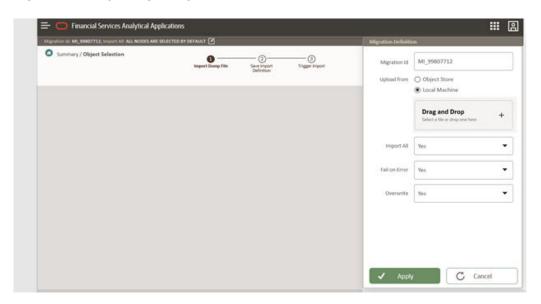
You can create Import definitions and add Import Objects using the Object Migration (Import) feature.

- Click Add in the Object Import Summary page to view the Migration Definition page.
- 2. Enter the following details, in the Migration Definition page.
 - ID The Unique Name for the New Import Object definition.
 The migration ID should not contain any space and exceed 30 characters. Underscore

 () and hyphen (-) are allowed.
 - Dump File -Select the .DMP file to be uploaded for creating the Import definition.



Figure 7-1 Importing Dump File



You can select the dump file using one of the following options:

- Select the option **Object Store**, to select the dump file (.DMP file) from the list of dump files available in the same environment.
- Select the option Local Machine and click Drag and Drop, to add a .DMP file, from the local directory. You can only Add Dump file that are downloaded using Download Dump file option.

Note:

- Uploading a dmp file either created or edited locally will generate an error.
- You can rename the .DMP file, if required. Ensure to follow the naming convention. For more information, refer to File Naming Conventions for Migrate Objects.
- **Import All** Select an option to import the objects that are associated with the selected object type. You can edit this option if required, in the **Object Selection** page.
 - Yes Imports all the objects that are included in the dump file.
 - No Imports only those objects that you can select in the Object Selection page.
- **Fail on Error** Select an option to proceed with the definition creation in case of an error. You can edit this option if required, in the **Object Selection** page.
 - Yes Stops the creation process, if error is generated.
 - No Creates the import definition even when error is generated. The object with the error is not included in the object creation.
- Overwrite Select an option to overwrite the existing definition. You can edit this
 option if required, in the Object Selection page.
 - Yes Replaces the existing Import definition.



- No Creates a new Import definition.
- 3. Click **Apply** to save the details.

The Import definition is created and **Object Selection** page is displayed. You can add objects to this import definition.

- Click Add to include objects to the definition.
- 5. Select the required **Object Type** from the Object Types drop-down list.

Objects that are defined in the environment with respect to the selected object type are are listed. For example, if Schedule is selected as the Object Type, all the Objects defined with respect to Schedule, in the environment are only listed.

You can also enter the first few letters of the object name in the Search Field, to narrow down the search.

- 6. Click the check box adjacent to each object, to include the objects associated with a specific object type, to the import definition.
- Repeat steps 4, 5 and 6, to include objects associated with various object types.
- 8. After adding all the required objects, click Save.

The Import definition is saved successfully and a confirmation message is displayed. The new definition is listed in the Object Import Summary page and the status is set to **Saved**.

If you want to Save and Export the Definition, click Import.

7.2.4.2 Editing Import Definitions

You can edit the Import definitions that are not imported and their status is Saved or Failed.

If the definitions is already imported and the status is set to **Success**, you cannot edit that definition.

To edit an Import definition, follow these steps.

 In the Object Import Summary page, highlight the definition and click Menu, and select Edit.

The **Object Selection** page is displayed.

- Edit the following details, if required, and click Save to changes.
 - Select the required Object Type from the Object Types drop-down list.
 - Select the objects to be added to/deleted from the definition.
- 3. After adding/deleting all the required objects, click **Save**.

The import definition is saved successfully and a confirmation message is displayed. The new definition is listed in the Object Import Summary page and the status is set to **Saved**.

- 4. Click Save to update the changes.
- 5. If you want to Save and import the Definition, click Import.

7.2.4.3 Importing Object Definitions

After creating the object definitions, you can export them for migrating between environments, using Object Migration (Import) feature.

You can import object definitions in **Edited** state from the object Summary page. Refer to the following steps to import Object definitions.



Note:

Comments and Documents attached to an Issue/Action will not be migrated.

- 1. In the Object Summary Page, mouse-over the definition and click **Menu**.
- 2. Select **Import** from the drop-down menu.

After you import, the following Import status types are displayed:

- Success Indicates that the definition is imported successfully.
- **Failed** Indicates that the definition was not imported. Right-click and select **Import**, to restart the import process.
- In Progress -Indicates that the import is in progress. Once the import is completed, the status will change to Success/Failed.

7.2.4.4 Viewing Import Object Details

Using the **View** option, you can view the list of objects and the dependancies added to an Object definition. You can also view the object details.

- 1. Mouseover the migration definition and click **Menu**.
- 2. Select **View**. The object types, list of objects and the dependent objects added to the export definition are listed in the left pane.
- 3. Double-click an object to view the object attribute details.

7.2.4.5 Viewing Object Import Log Details

View log facilitates you to view the log information of the object definition with the migration status.

Note:

The View Log page for a definition with migration status **Saved** will be empty.

To view the log details of definition with migration status **Success** or **Failed**, follow these steps.

- 1. In the Object Import Summary window, mouseover the migration definition and click **Menu**.
- 2. Select View Log from the drop-down menu, to access the View Log page.

The migration status with following details is displayed.

- Object Migration ID The migration ID associated with the import object.
- Object Type The object type of the import object.
- Object Code The object code associated with the import object.
- Creation Date The date of creation of the import object.
- Created By The User Id of the User who created the import object.
- Status The import status of the specific object.
 - Success Indicates that the specific object was imported successfully.



- Failed Indicates that the specific object was not imported.
- Import Status Message The complete import status message.



Import status message currently not supported for GL reconcilation.

3. Click **OK** to close the page, after viewing the log details.

7.2.4.6 Deleting Import Definition

You can delete only definitions that are set to Saved or Failed status.

To delete an import definition, follow these steps.

- In the Object Import Summary page, mouseover the definition to be deleted and click Delete.
- 2. Click **Yes** to confirm and proceed with the deletion.

7.3 Changing Object Ownership

Access Type for most objects can be defined as 'Read Only' and 'Read/Write'. When it is defined as 'Read Only' the user who created owns it i.e., another user will be able to only view it. For any reason if the owner of object is not available then no one else will be able to modify it.

This functionality helps you to change the ownership of objects from one user to another user(s).

Changing the ownership of object is generally required when the users of the application move across different teams or leave the organization. In this case, the ownership of the objects created by a particular user remain on that user's name and they need to be transferred to different user to enable them to operate on them.

To change the ownership of objects, you must raise a Service Request with the Oracle Support Team with the following information. Oracle Support Team will coordinate with the Operations team to change the ownership.

- The existing username who created the object.
- The new username to which the ownership must be transferred.



Precursor to Analytics

Prerequisite Configuration steps to ensure that Financial Statements available at the Reporting Layer are correctly populated.

At the heart of all the reporting and analytics in PACS, lies Financial Statements – or most importantly the Income Statement. The other financial statement that is part of the Management Reporting dashboard is the Balance Sheet. At the core of Financial Statements defined within PACS are Financial Elements – in short FE's. A Financial Statement, at its core is nothing but a hierarchical representation of Financial Elements. While PACS has seeded OOTB Financial Statements (Balance Sheet Hierarchy and Income Statement Hierarchy available from Dimension Management UI), it also allows banks/ customers to create their own custom variations of those Financial Statements. It is however recommended to use one version while analyzing at the same time the Income Statement for both Top Down (Management Ledger Reporting) and Bottom Up (Instrument Reporting) purposes.

The Financial Element Hierarchy is the access point for all the Financial Statements. For the Analytics Reports to show up on the respective dashboards, there are some tasks that you need to perform at the Profitability Management Cloud Service (PFTCS) end, which is currently a prerequisite for the Profitability Analytics Cloud Service to be operational.

As soon as you have these hierarchies in place (refer to Dimension Management for more details) you need to perform profitability allocation both top-down and bottom-up so for both Management Ledger and Instruments tables. Ideally the allocation must be performed on the financial elements that are pertaining to that hierarchy - the ones you will be utilizing for the Income Statement. After the allocation has been performed on the Top-Down Income Statement, the runchart must be executed to propagate the data in the results area, for the purposes of Management Reporting.

For Bottom Up – Profitability Insights, Customer Profitability Reports and so on, you will have to execute an additional step from the set-up configuration menu **Financial Element Mapping**. This functionality allows you to map the FE's you have allocated to the Instrument Portfolio columns. Note that allocations to the instrument columns can be done during the usual course of defining and executing allocation rules at PFTCS – the Profitability Management Cloud Service. The application also allocates the instrument columns on the lines of the FE's of the Top-Down Income Statement. Additionally, you can also directly allocate Instrument columns without passing via Management Ledger, by defining those rules separately in the allocation process.

In essence, the FE to Line Item Mapping functionality allows you to define a one-to-one mapping of a FE to a portfolio column - which comes with the capability, via runchart execution, to read the instrument columns you have allocated in the previous step and propagate the data into the results area for PACS and retrieve the hierarchy of the Bottom Up Income Statement that is consistent with the Top-Down Income Statement created using the Financial Element Hierarchy.

This mapping is already available for the seeded *Income Statement Hierarchy* for the Bottom-Up scenario. However, for a custom Income Statement Hierarchy, if you create new FE's, then those FE's will also require a corresponding Instrument Portfolio column that you have allocated. Additionally, that column, which can be an existing column or placeholder, must be mapped via the **Financial Element Mapping** UI.

After the mapping and hierarchies are in place, the allocations have been run and runcharts are executed, the results area is populated, paving the way for Income Statements at Management Ledger and account levels. Subsequently, these results are consumed by the Reporting Layer, which feeds the reports for – Management Reporting, Profitability Insights, Segmentation, Income Statement at account and customer levels, CLTV Forecast, Customer Group Income Statement and so on.



9

Reports & Analytics

This chapter describes the features and functions of Profitability Analytics Cloud Service's (PACS) and is intended for the use of Administrators, Analysts, Reporting and Analysts.

Profitability and Balance Sheet Management (PBSM) Could Service utilizes the power of Oracle Analytics to generate the Business Intelligence Reports.

Oracle Analytics is a scalable and secure Oracle Cloud Service that provides a full set of capabilities to explore and perform collaborative analytics for you, your workgroup, and your enterprise.

With Oracle Analytics Cloud, you also get flexible Service Management capabilities, including fast setup, easy scaling and patching, and automated lifecycle management.

For more information, see the Oracle Analytics Cloud documentation.



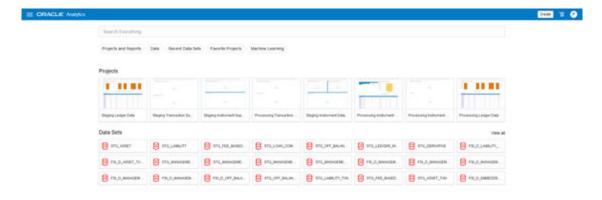
Please refer to the Doc ID: 2869409.1 to retrieve the Profitability and Balance Sheet Management Cloud Service Glossary of the Reporting Data Model (RPD Subject Areas).

9.1 Access Business Intelligence (BI) Reports

This section describes the steps to access the Business Intelligence (BI) Reports.

To access the Oracle Financial Services Profitability Management Cloud Service BI Reports, from the LHS Menu, select **Analytics**, and then select **Home Page**.

Figure 9-1 Analytics Home Page



9.2 Preparing Data using SQL Query Browser

Data Sets are self-service Data Models that you build specifically for your Data Visualization and Analysis requirements.

A Data Set can be based on one Table, Spreadsheet, or a File. Alternatively, a Data Set can be a self-service Data Model that contains multiple Tables with relationships defined between the Tables.

A Data Set contains Data Source Connection Information, Tables, the Columns you specify, and the Data Enrichments, and Transformations that you apply.

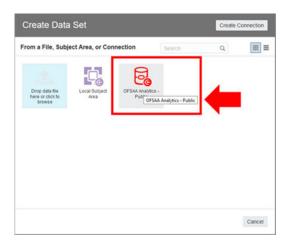
For more information, see Visualizing Data and Building Reports in Oracle Analytics Cloud.

To access the SQL Query Browser and prepare Data, follow these steps:

 From the LHS Menu, select Analytics, and then select SQL Query Browser.
 The SQL Query Browser allows you to use an existing Database Connector named OFSAA Analytics – Public to interact with the underlying available Database Structures.

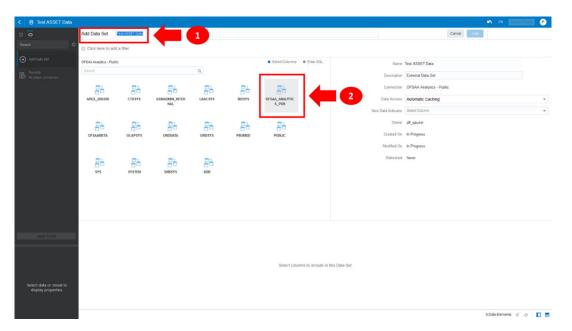


Figure 9-2 Create Data Set Screen



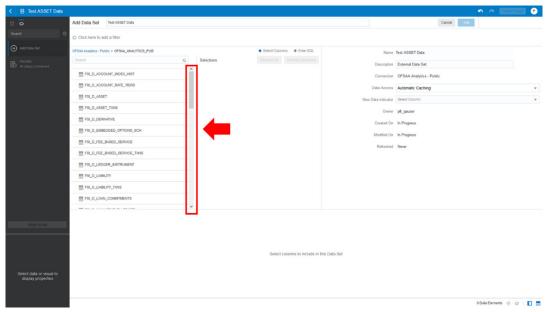
2. After selecting the Database Connector, you must select the Database Schema named OFSAA_ANALYTICS_PUB to proceed to the next step of Database Object Selection.

Figure 9-3 Add Data Set



- 3. Provide a meaningful name to the Data Set, which will be generated from this process and be used for the SQL Query Analysis.
- **4.** You can search for a Database Object from the available options. You can either scroll down or search the Database Objects displayed in alphabetical order.

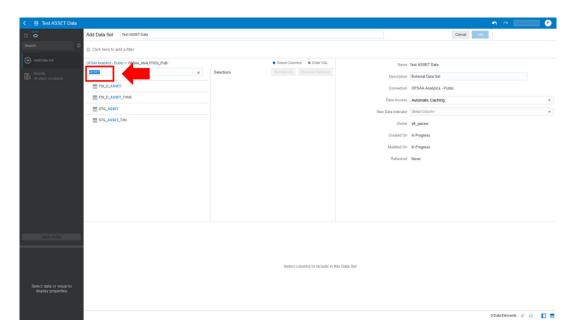
Figure 9-4 Add Data Set – Search from the List



Or

Type the Database Object Name to filter the list with Description.

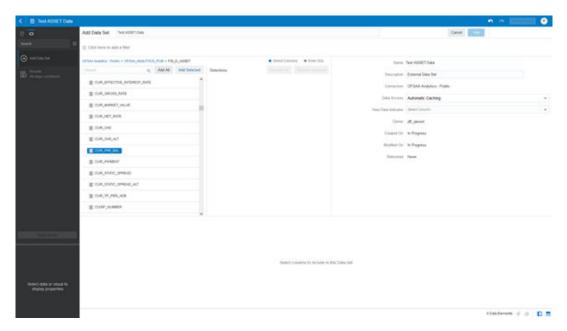
Figure 9-5 Add Data Set – Search by Name



After you select the Object that want, you can proceed to the next step.

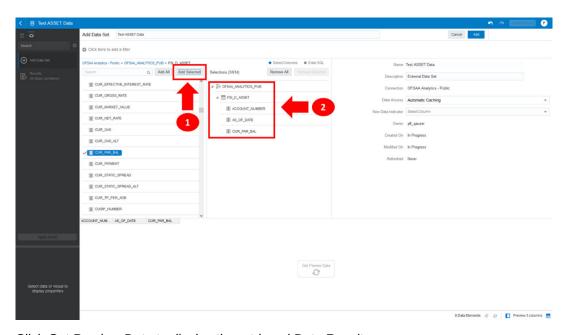
5. You search the Columns that are available for the selected Database Object by scrolling.

Figure 9-6 Add Data Set – Search Columns



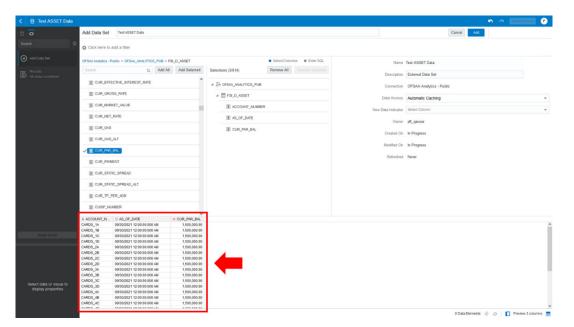
6. Add the Database Object Column as required.

Figure 9-7 Add Data Set – Adding the Database Object Column



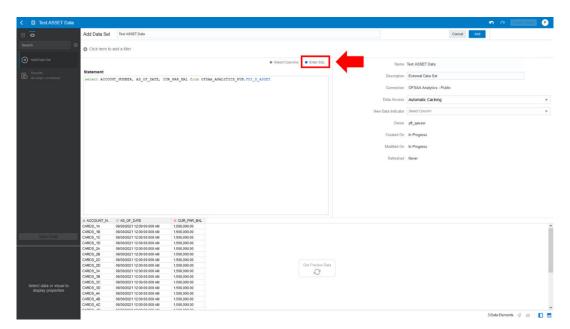
7. Click Get Preview Data to display the retrieved Data Results.

Figure 9-8 Data Results



8. In addition, you can switch to the Enter SQL Pane Editor. You can change the autogenerated SQL Query at any time and click Get Preview Data to retrieve the results based on the modified SQL Query.

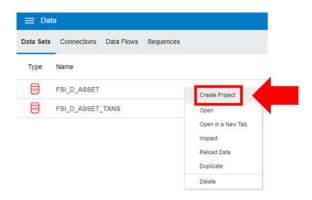
Figure 9-9 Data Results based on modified SQL Query



- 9. Click Add to save the SQL Data.
- Click Data on the LHS Menu and click Data Sets to display the available Data Sets for usage.
- **11.** Right-click on the Data Set name to display the options as shown:



Figure 9-10 Data Set Options



12. In the menu that is displayed, click Create Project.

9.3 Creating Adhoc Reports and Analysis

The Profitability and Balance Sheet Management Ad-hoc Analysis is provided inside a Shared Folder. Users can use this folder for saving any ad-hoc reports which need to be shared across respective teams. When any patch is applied these reports will not be replaced or purged.

9.3.1 Amend Out-of-the-Box Reports

A user with DV Content Author privileges will have access to amend and save the out-of-the-box reports.

To amend and save the reports:

 To open the ORACLE Analytics page, from the Home Page, select Home Page, and then from the Page Menu on the top-right corner, select Open Classic Home.
 A new window will open with Classic Home.

Figure 9-11 Classic Home Page



Click Catalog.

Figure 9-12 Catalog





Navigate to Shared Folders and select the dashboard and subsequently the report from the available list that you want to edit and right click on your mouse. You will find the Copy option as indicated in the below illustration.

Figure 9-13 Copy Option

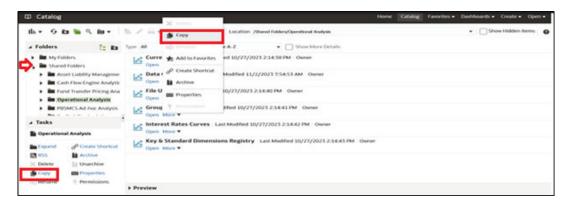
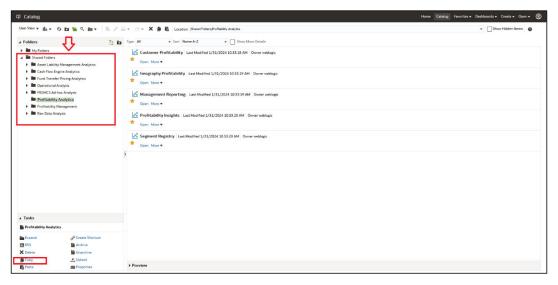
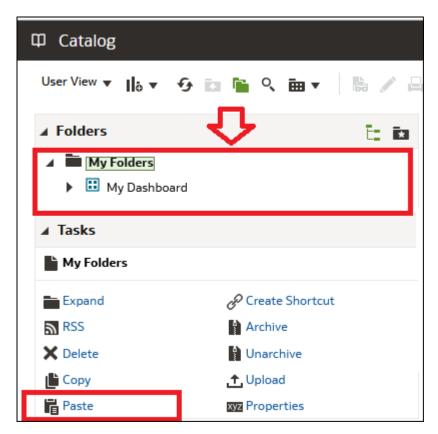


Figure 9-14 Folders



4. Navigate to My Folders.

Figure 9-15 My Folders

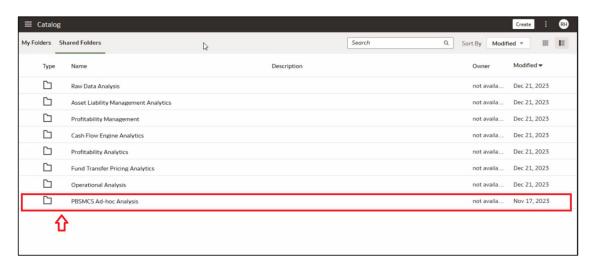


Paste the report. You will be able to edit the Report which is saved inside My Folder.

9.3.2 Ad-hoc Analysis Folder

This Folder can be used by the customers to share the reports across the organization.

Figure 9-16 Ad-hoc Analysis folder



The out-of-the-box reports can be edited and saved inside Adhoc analysis folder. The reports inside these folders will not be updated or refreshed when any provisioning happens.

9.3.3 Working with Out-of-the-Box Subject Area

A user with DV Content Author credentials will have access to create new reports. The DV Consumer will have Read Only access.

To work with OOTB Subject Area:

- 1. To open the ORACLE Analytics page, from the Home Page, select Home Page.
- Click the Create button and select Workbook as shown below.

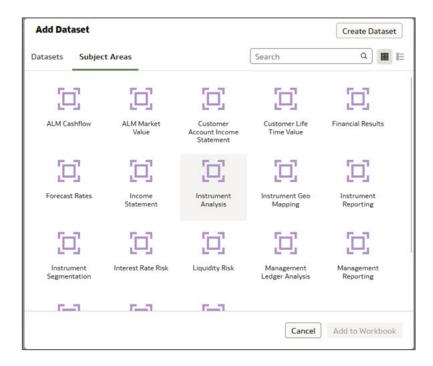
Figure 9-17 Create



This opens the Add Dataset window.

3. Select the Subject Areas tab. You will find all the relevant subject areas listed as follows.

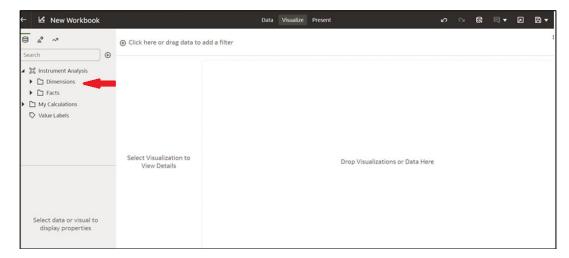
Figure 9-18 Subject Areas





4. You can double click to select a particular Subject Areas and a new canvas will open up with the elements of the selected subject area.

Figure 9-19 New Workbook



Expand the **Dimensions** and **Facts** and drop the relevant items on to the canvas. By default the best visualization/ chart type for the given data is displayed.

9.4 Operational Analysis

This topic covers the following reports:

- Dimensions Registry
- Currency Rates
- Segment Registry
- Data Quality Checks
- File Uploads Report
- Groups and Roles Report
- Tables and Partitions Report

9.4.1 Dimensions Registry

To access the Dimensions Registry report, from the LHS menu, select **Operational Analysis**, and then select **Dimensions Registry**.

This is arranged as a set of reports catering to the analysis of the following categories:

- Financial Element
- Legal Entity
- Common COA
- GL Account
- Org Unit
- Product



- Industry
- Branch
- Geography
- IFRS9 Stage

9.4.2 Currency Rates

To access the Currency Rates report, from the LHS menu, select **Operational Analysis**, and then select **Currency Rates**.

Reporting Currency Rates is the currency in which an entity's financial statements or other financial documents are reported. Choosing one currency for reporting makes it easier to understand the financial documents across the board.

This is arranged as a set of reports catering to the analysis of the following categories:

- Floating Segment Rate
- Fixed Exchange Rate
- Exchange Rate

9.4.3 Segment Registry

To access the Segment Registry report, from the LHS menu, select **Operational Analysis**, and then select **Segment Registry**.

- This canvas shows an operational view of the segments for defined Segment Types, that were created using the segmentation UI. In particular, the reports focus on providing inputs on –.
- Segment Mapping Dimensions.
- Dimension Range Look Ups.
- Possible Intersection zones in case the same ranges for a particular dimension has been used in defining multiple Segments.

Report Filters

The following Report Filters are available:

- Retail or Wholesale Flag: You can use this filter to select customer type identification by category to retail or wholesale.
- Segment Type: You can use this filter to select a specific Segment Type for the Customer Profile.
- **Segment Name**: You can use this filter to select a specific Segment Type under the classification of segmentation Gold, Silver, Platinum, or Bronze.
- Dimension Map Lookup Type: You can use this filter to select an Exact Match or Range.
- **Segment Dimension Name**: You can choose an analysis dimension to assign to the report, they can be: ASSET Balance, Age, AVG Transaction Amount, Credit Score, Income, NIBT, No of Accounts, No of Transactions.
- **Band**: You can use this filter to select a specific range to define your band.



9.4.4 Data Quality Checks

To access the Data Quality Checks report, from the LHS menu, select **Operational Analysis**, and then select **Data Quality Checks**.

Data Quality Check Reports are divided into four canvases.

- DQ Check Platform Availability
- DQ Batch Executions
- DQ Results
- DQ Detail Results

DQ Check Platform Availability

You can use the following filters:

- DQ Rule Name: Rules created in the Application
- Base Table: Base tables used in the rules
- Severity Values: Error, Warning, Info

Total Checks: Number of Checks created in the OFSAA Application.

Number of Total available checks for each Staging table: Gives the information regarding number of checks based on the various staging tables.

The following reports gives the information regarding the number of various checks created.

- Range Checks: Total number of Range checks defined in the system.
- Data Length Checks: Total number of Data Length checks defined in the system.
- Column Reference Checks: Total number of Column Reference checks defined in the system.
- List of Values Checks: Total number of List of values check defined in the system.
- Null Checks: Total number of Null checks defined in the system.
- Blank Checks: Total number of Blank checks defined in the system.
- Integrity Checks: Total number of Integrity checks defined in the system.
- Duplicate Checks: Total number of Duplicate checks defined in the system.
- Business Checks: Total number of Business checks defined in the system.



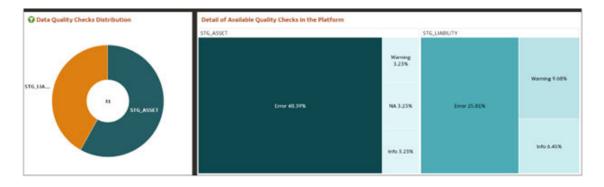
Figure 9-20 Number of Total available Checks for each Staging table



Data Quality Checks Distribution gives the distribution of checks based on the base tables.

Detail of Available quality checks in the platform gives the percentage distribution according to severity category defined on different Staging tables.

Figure 9-21 Detail Quality Checks Distribution and Detail of Available Quality Checks in the Platform



DQ Batch Executions Canvas

This canvas gives the information regarding the Batches executed on Data Quality Checks.

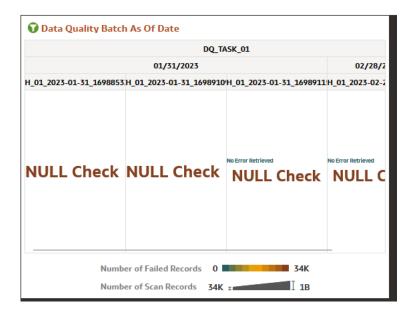
You can use the following filters:

- Batch Identifier: Batches executed in the system.
- Process Identifier: Process Name for the executed batch in the system.
- Fic Mis Date: Batch execution date.
- DQ Group Identifier: Data Quality Groups created in the system.
- DQ Group Description: Description of Data Quality Groups.
- DQ Check Identifier: Data Quality checks created in the system.
- DQ Check Description: Description of Data Quality checks.
- DQ Source Table: Base table on which Data Quality check is created.
- DQ Category Name: Data Quality check category.



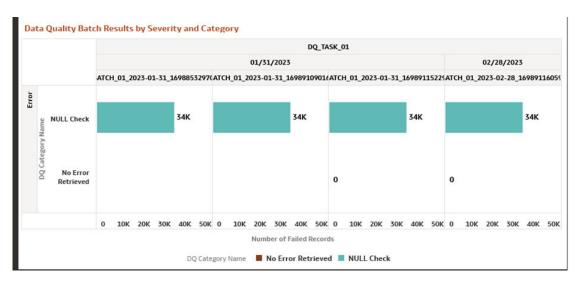
Data Quality Batch As Of Date: This report provides details on the executed checks, including the date of execution, Batch name, and the count of scanned records and failed records against each defined check and corresponding to Data Quality Category name.

Figure 9-22 Data Quality Batch As Of Date



Results of Data Quality Batches by Severity and Category: This report provides details on the quantity of failed records across various batches, including the execution date and batch name according to Data Quality Category Name.

Figure 9-23 Data Quality Batch Results by Severity and Category



These tile reports display information about total number of scanned records and total number of failed records according to the last available Data Quality batch execution.

Number of Scan Records

180K
638

Figure 9-24 Number of Scan Records and Number of Failed Records

Results of Data Quality Batches for Scanned and Failed Records: This report presents a bar chart illustrating the total number of scanned records and total number of failed records, categorized by batch name and execution date.

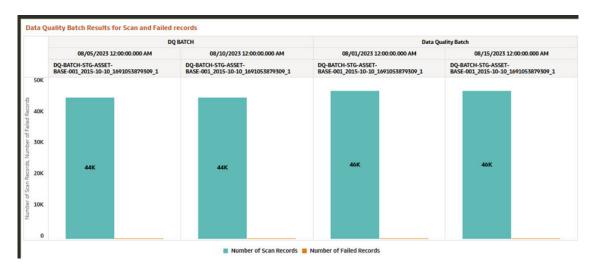


Figure 9-25 Data Quality Batch Results for Scan and Failed Records

DQ Results

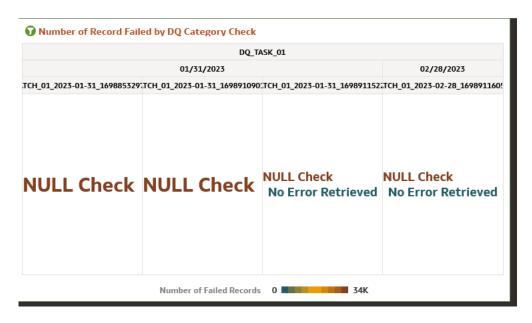
You can use the following filters:

- Batch Identifier: Batches executed in the system.
- Process Identifier: Process Name for the executed batch in the system.
- Fic Mis Date: Batch execution date.
- **DQ Group Identifier**: Data Quality Groups created in the system.
- DQ Group Description: Description of Data Quality Groups.

- DQ Check Identifier: Data Quality checks created in the system.
- DQ Check Description: Description of Data Quality checks.
- DQ Source Table: Base table on which Data Quality check is created.
- DQ Category Name: Data Quality check category.

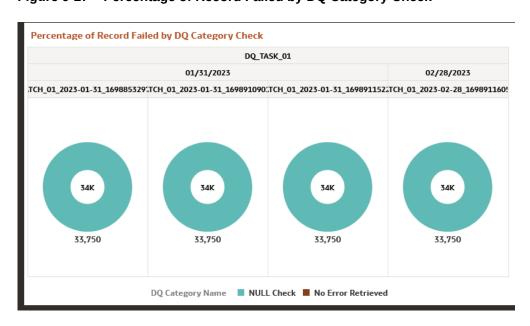
Number of Records Failed by Data Quality Category Check: This report showcases the number of failed records for each Data quality check by batch names and execution dates according to Data Quality Category Name.

Figure 9-26 Number of Record Failed by DQ Category Check



Percentage of Record Failed by DQ Category Check: This report gives the information regarding Percentage distribution and total number of checks by batch names and execution dates displayed by Data Quality Category Name.

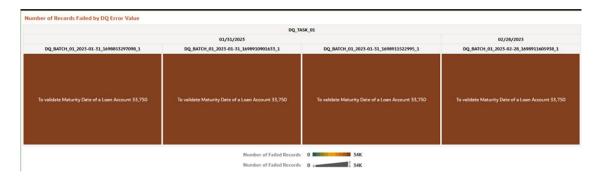
Figure 9-27 Percentage of Record Failed by DQ Category Check





Number of Records Failed by DQ Error Value: This report shows the information regarding number of errors along with the Data Quality Check Description separated by batch names and execution dates.

Figure 9-28 Number of Records Failed by DQ Error Value



DQ Detail Results

This canvas gives the detailed information regarding the Data Quality Batch information.

Figure 9-29 DQ Detail Results

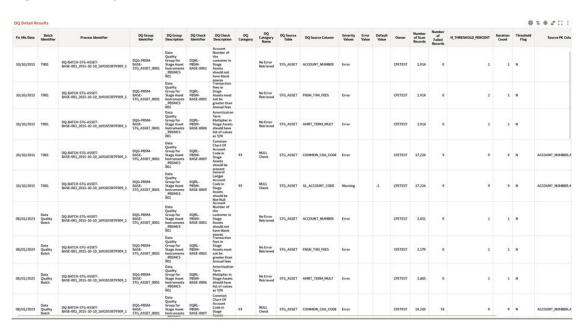




Figure 9-30 Data Action



Data Action: A Data Action link can pass context values as parameters to other canvas. In Data Quality Reports we have two data actions namely DQ Results and DQ details results.

DQ Results: When user right clicks on any element and navigates to DQ Result, the selected object will get passed as a filter and pass this filter in DQ results Canvas.

DQ Result Details: When user right clicks on any element and navigates to DQ Result Details, the selected object will get passed as a filter and pass this filter in DQ Results Details Canvas.

9.4.5 File Uploads Report

To access the File Uploads report, from the LHS menu, select **Operational Analysis**, and then select **File Uploads**.

Figure 9-31 File Upload Report





Report Common Filters

You can use a series of canvas level pinned Prompts to filter the data according to Functional Key Attributes as follows:

Figure 9-32 Canvas Prompt Filters

Upload Date	File Identifier	File Name	Uploaded By	Status
Last 3 Months	All	All	All	All

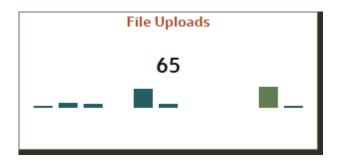
The following filters are available:

- Update Date: Use this filter to select the Update Date. The selection default is Last 3
 Months.
- File Identifier: Use this filter to select a specific File Identifier.
- **File Name**: Use this filter to select a specific File Name.
- Upload By: Use this filter to select Upload By.

Canvas File Uploads

This chart shows the total number of files uploaded based on a reporting period.

Figure 9-33 Canvas File Uploads



Canvas Uploads by

This filter enables you to view the details of the users who have uploaded the files via the UI or batch process.

Figure 9-34 Canvas Uploads by





Canvas File Type

This filter the data by the file type. In this case, it's DMP, but it can be CSV, TXT, or other formats supported by the UI.

Figure 9-35 Canvas File Type



Canvas Summary

This table gives a clear view of detailed file upload information, that is displayed based on the search filters. Here, you can see the file identifier, prefix, File Name, the user who uploaded the file, Upload Data, status, Deleted Flag – which identifies if the file has been deleted, and the Upload URL.

Figure 9-36 Canvas Summary



9.4.6 Groups and Roles Report

To open the Group and Users Report, from the LHS menu, select **Operational Analysis**, and then select **Groups and Roles Report**.

The Groups and Roles Report Reporting reports section is arranged as a set of canvases, classified into the following:

- Master Registry for Groups Roles Functions
- User to Groups Mapping
- Group to Roles Mapping
- Roles to Functions Mapping

Report Common Filters

You can use a series of canvas-level pinned Prompts to filter the data according to Functional Key Attributes as follows:



Figure 9-37 Canvas Prompt Filters for Users, Groups and Roles

User Id	Group Code	Group Name	Role Name	Role Code	Function Code	Function Name
All	All	All	All	All	All	All

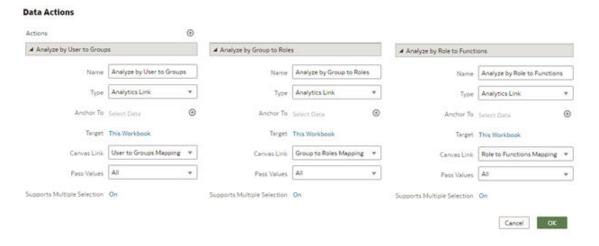
The following filters are available:

- User ID: To select/search for a specific user ID.
- Group Code: To select/search for a specific group code.
- Group Name: To select/search for a specific group name.
- Role Name: To select/search for a specific role name.
- Role Code: To select/search for a specific role code.
- Function Code: To select/search for a specific function code.
- Function Name: To select/search for a specific function name.

Report Data Action

The reports provide the capability to analyze data across canvases via a Data Action. The following are the Data Action Configuration details:

Figure 9-38 Data Action Configuration



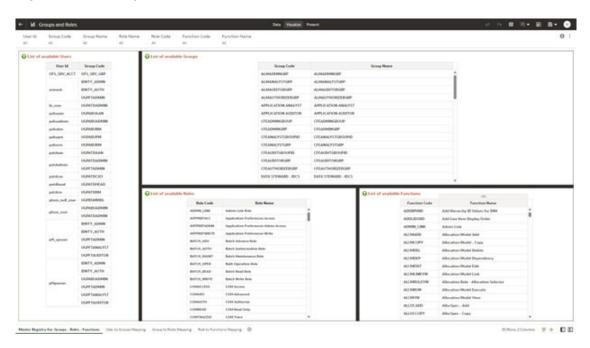
You can analyze by User to Groups, Group to Roles, or Role to Functions.

Report Master Registry For Groups, Rules, Functions

The Master Registry for Groups-Roles-Functions, displays users mapped from the IAM into PBSMCS applications based on the user ID, user group, and related roles and functions, which are assigned to off the shelf groups.

Note that, IAM enables you to set up and manage users and groups, and assigns users to different user groups. You can also use the interactive charts available in the report to analyze the groups, roles, and functions for a given user.

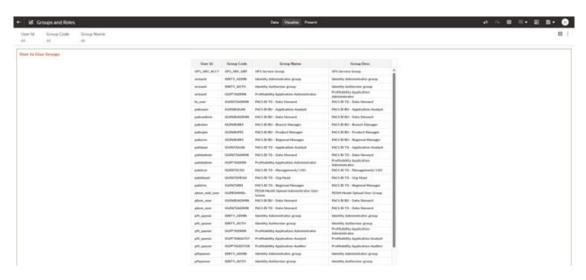
Figure 9-39 Groups and Roles



User Group Mapping

In this canvas, you can view the User ID, Group Code, Group Name, and the Group Description. By using the User ID filter at top to search for a particular user, you can see the corresponding group name and description for the selected user.

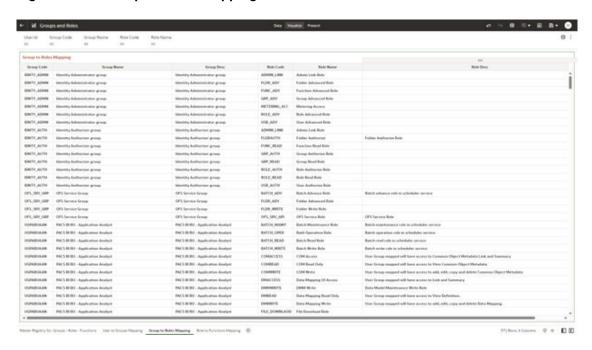
Figure 9-40 User Group Mapping



Group to Rules Mapping

In this canvas, you can filter using User ID, Group Code, Group Name, Role Code, and Role Name. For example, you can filter using a particular role name to view the groups assigned to that role.

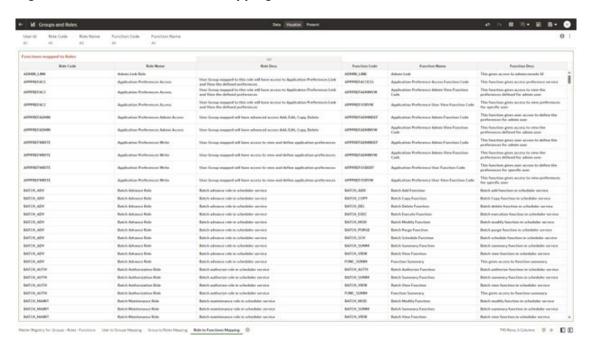
Figure 9-41 Groups to Role Mapping



Rule to Functions Mapping

This canvas displays all the functions mapped to the roles. You can filter based on User ID, Role Code, Role Name, Function Code and Function Name. For example, you can select a particular role, to view the role name, description, and the function assigned to that role.

Figure 9-42 Role to Functions Mapping





9.4.7 Tables and Partitions Report

The Tables and Partitions Report displays all the tables, partitions, and subpartitions into PACS and PBSM schema for monitoring the details in the tables.

To open the Tables and Partitions Report, from the LHS menu, select **Operational Analysis**, and then select **Tables and Partitions Report**.

The Tables and Partitions reports section is arranged as a set of canvases, classified into the following:

- PA Tables and Partitions
- PA Tables and SubPartitions
- PBSM Tables and Partitions
- PBSM Tables and SubPartitions

Report Filters

You can use a series of canvas-level pinned Prompts to filter the data according to Functional Key Attributes as follows:

Figure 9-43 Canvas Prompt Filters

Table Name	Partition Name	Subpartition Name
All	All	All

The following filters are available:

- Table Name: To select/search for a specific Table Name.
- Partition Name: To select/search for a specific Partition Name.
- Subpartition Name: To select/search for a specific Subpartition name.

PA Tables and Partitions

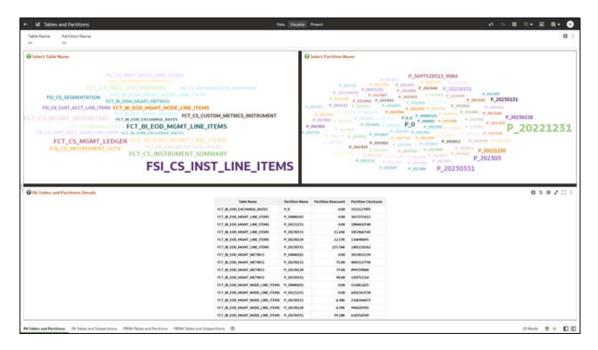
The ALL views show the Partitions as the case be in the PACS Schema.

The two target cloud charts present are: Table Name, Partition Name. You can click on a specific Table or Partition name in the Target Cloud chart to get finer level details on number of rows and checksum.

The table view details present: Table Name, Partition Name, RowCount, and CheckSum.



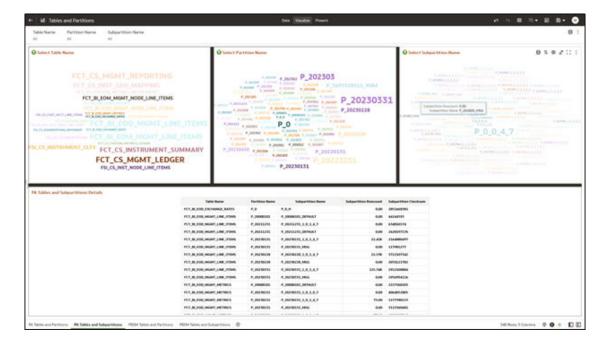
Figure 9-44 Operation Analysis - Tables and Partitions



PA Tables and SubPartitions

The ALL views show the SubPartitions as the case be in the PACS Schema.

Figure 9-45 Operation Analysis - Profitability Analytics Cloud Service Tables and Partitions



PBSM Tables and Partitions

The functionality of this canvas is similar to PACS canvas of the same name. The ALL views show the Partitions as the case in the PBSM Schema.

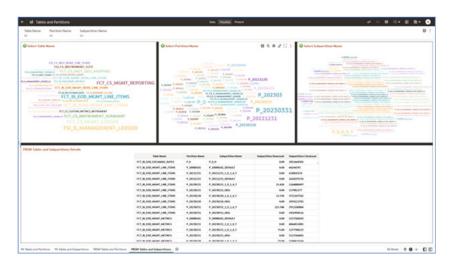
Figure 9-46 Profitability and Balance Sheet Management Cloud Service Tables and Partitions



PBSM Tables and SubPartitions

The functionality of this canvas is similar to PACS canvas of the same name . The ALL views show the SubPartitions as the case in the PBSM Schema.

Figure 9-47 Profitability and Balance Sheet Management Cloud Service Tables and SubPartitions





9.5 Management Reporting

To access the PA Management Reporting canvas, select Analytics from the LHS Menu, and then select Management Reporting.

Note:

Before generating reports and analytics, it is mandatory to set the relevant currencies and currency rates. This is required for generating the reports with correct values. For more information about creating currencies and currency rates, see the following:

- Currencies
- Currency Rates

Management Reporting is designed to provide timely and actionable Management Reports across organization, line of business, products, and legal entities. In addition to standard income statement and balance sheet reporting, you also get Risk Adjusted Performance Management (RAPM) reporting and scenario comparison analysis for profitability measures.

To feed the Management Reporting, refer to the *Oracle Financial Services Profitability Analytics Cloud Service Data Flow* document available at Doc ID: 28694909.1.

For the Management Reporting, refer to the following Data Flow sub-sections:

- PACS Management Ledger
- PACS Management Reporting
- PACS Management Line Items & Metrics

For Income Statement and Balance Sheet Hierarchies, or any other Hierarchy created out of Financial Element dimension, a Financial Element carrying a percentage value cannot be added as a child, Sibling to a child or Leaf under Parent/ Child/ Sibling in the Hierarchy. Users are expected to be mindful not to map a portfolio column to a FE denoting a rate or apply an expression, where a divisor is used in a way that the column value effectively becomes a rate, thus preventing a meaningful roll-up to the node of the hierarchy.

9.5.1 Management Ledger Based Reporting

You can use the Management Reporting section to perform analysis on summary Top Down numbers fed from the General Ledger.

The report provides you analysis on the Income Statement, its drivers, key profitability metrics and balances. Trends are available for all of them including comparisons with Budget and Operating Plan. Analysis at the Organization Unit level including comparisons of the Top performing and bottom performing units are also provided.

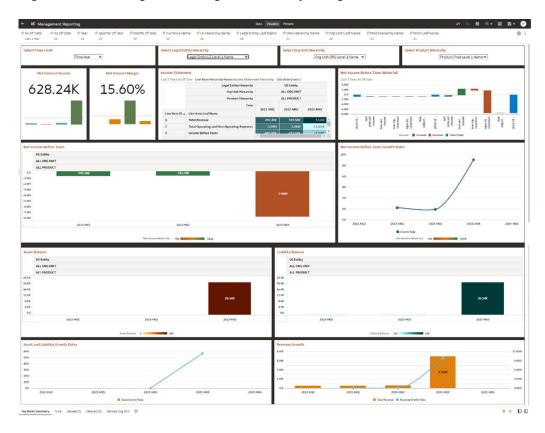
The BI includes display of absolute values as well as growth rates over the previous available periods for key data elements. The Management Reporting reports section is arranged as a set of canvases, classified into the following:

- Top Down Summary
- Time
- Detailed IS



- Detailed BS
- Defined Org Unit

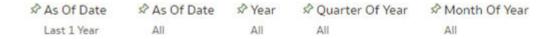
Figure 9-48 Management Ledger Based Reporting



9.5.1.1 Report Common Filters

You can use a series of canvas level pinned Prompts to filter the data according to Functional Key Attributes as follows:

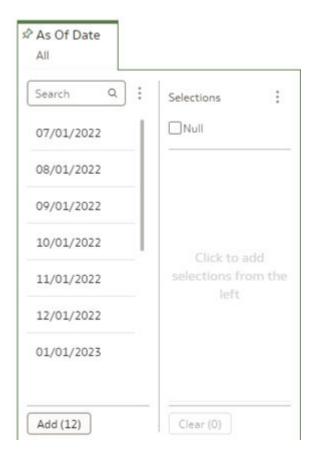
Figure 9-49 Canvas Prompt Filters for Time Dimension



• As of Date: You can use this filter to isolate a selected timeframe for the analysis. The following screenshot displays the possible options that this filter provides against the Time Dimension.

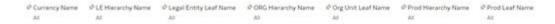


Figure 9-50 As of Date Selection



- Additional Filters for the Time Dimension as follows:
 - As of Date (Year)
 - As of Date (Day)
 - Year
 - Quarter of Year
 - Month of Year

Figure 9-51 Other Canvas Prompt Filters



- **Currency Name:** You can use this filter to select a specific Currency Code for the underlying preselected reporting currency.
- Legal Entity Hierarchy Name: Note that this is a mandatory filter for the group filtering on Legal Entity Key Processing Dimension.

As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same time, a mandatory driver to select "LE Hierarchy Name" must be selected with only a single value simultaneously.



- **Legal Entity Leaf Name:** You can use this filter to select the Legal Entity Leaf Name that is related to the underlying Management Ledger data.
- Org Unit Hierarchy Name: This is a mandatory filter for the group filtering on Org Unit Key
 Processing Dimension. As the Application supports the creation of multiple hierarchies for
 the same Dimension of analysis, and to avoid displaying results from multiple Dimension
 Hierarchies at the same time, a mandatory driver to select "Org Unit Hierarchy Name" must
 be selected with only a single value simultaneously.
- Org Unit Leaf Name: You can use this filter to select the Org Unit Leaf Name corresponding to the hierarchy.
- Product Hierarchy Name: Note that this is a mandatory filter for the group filtering on Product Key Processing Dimension.
 As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same time, a mandatory driver to select "Prod Hierarchy Name" must be selected with only a single value simultaneously.
- Product Leaf Name: You can use this filter to select the Product Leaf Name corresponding to the hierarchy.

9.5.1.2 In canvas Variable Prompts

Figure 9-52 In-canvas Prompt Filters for Top Down Summary and Detailed Income Statement



- **Select Time Level:** You need to select Year/ Half Year/Quarter/ Month from this prompt to display the preference of the time block for the analysis.
- Select Legal Entity Hierarchy: You can use this filter to select the LE Level Name pertaining to the LE Hierarchy level, for rolling up the results on the underlying Legal Entity Leaves that are part of the selected hierarchy.
- Select Org Unit Hierarchy: You can use this filter to select the Org Unit Level Name pertaining to the Org Unit Hierarchy level, for rolling up the results on the underlying Org Unit Leaves that are part of the selected hierarchy.
- **Select Product Hierarchy:** You can use this filter to select the Product Level Name pertaining to the Product Hierarchy level, for rolling up the results on the underlying Product Leaves that are part of the selected hierarchy.

Figure 9-53 In-canvas Filters for Time and Defined Org Unit canvas



- Select Income Statement Reporting Line: This is a mandatory filter for the group filtering on the Income Statement reporting line dimension. The following filter values are available for selection:
 - Net Income Before Tax: Net income before tax is the amount of profit made by the financial institution before income tax is paid. This figure is found by subtracting total expenses from total revenue.

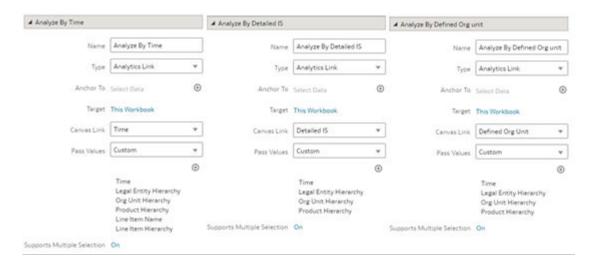
- Operating Expense: Operating Expenses are expenses incurred by the bank or financial institution to carry out normal business operations.
- Non Operating Expense: A non-operating expenses are costs that are not directly related to core business operations of the bank. Typical examples of non-operating expenses for a bank are credit losses, recoveries, restructuring costs, write-offs and so on.
- Total Revenue: Total revenue is the total amount of income earned by the bank by selling products and services. It determines how well a company is bringing in money from its core operations of interest arbitrage and other income like fees and commissions.
- Net Interest Income: Net Interest Income (NII) is the difference between the revenue generated from a bank's interest-bearing assets and expenses incurred while paying its interest-bearing liabilities. A bank's assets consist of personal and commercial loans, mortgages, securities etc. A bank's liabilities typically consist of customer deposits.
- Non Interest Income: The non-interest income is the revenue generated by the banks and financial institutions, usually from the non-core activities (loan processing fee, late payment fees, credit card charges, service charges, penalties, etc. net off waivers).
- Total Expense: Total Expenses means the sum of cost of sales and operating expenses (general, administrative, sales and marketing expenses) and non-operating expenses.
- Credit Loss Provision: The provision for credit losses is an estimation of potential losses that a bank might experience due to credit risk. The provision for credit losses is treated as a non-operating expense on the company's financial statements.
- **Select Time Level:** You need to select Year/ Half Year/ Quarter/ Month from this prompt to display the preference of the time block for the analysis.
- Select Legal Entity Hierarchy: You can use this filter to select the LE Level Name
 pertaining to the LE Hierarchy level, for rolling up the results on the underlying Legal Entity
 Leaves that are part of the selected hierarchy.
- **Select Org Unit Hierarchy:** You can use this filter to select the Org Unit Level Name pertaining to the Org Unit Hierarchy level, for rolling up the results on the underlying Org Unit Leaves that are part of the selected hierarchy.
- **Select Product Hierarchy:** You can use this filter to select the Product Level Name pertaining to the Product Hierarchy level, for rolling up the results on the underlying Product Leaves that are part of the selected hierarchy.

9.5.1.3 Report Data Action

These reports provide the capability to analyze data across canvases via a data action. The following are the data action configuration details:



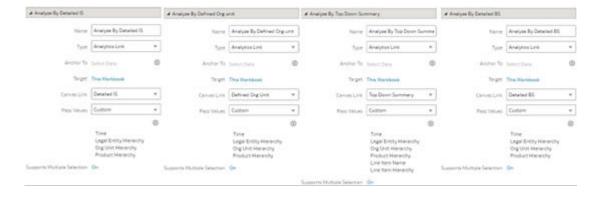
Figure 9-54 Data Action configuration in Top Down Summary canvas



From every chart available in "Top Down Summary", except for "Net Interest Income" and "Net Interest Margin" charts, you can select a value, and then navigate to the Time, Detailed Income Statement and Defined Org Unit canvas.

In order to do so, with a right click on the chart selection, the data action option (Analyze) will appear for you to be able to pass on the data filters to the canvas that you select.

Figure 9-55 Data Action configuration in Time canvas

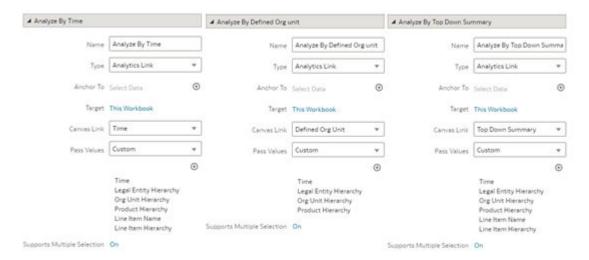


From every chart available in the Time canvas, you can select a value, and then navigate to the Detailed Income Statement, Defined Org Unit canvas, Top Down Summary and Detailed BS.

In order to do so, with a right-click on the chart selection, the data action option (Analyze) will appear for you to be able to pass on the data filters to the canvas that you select.



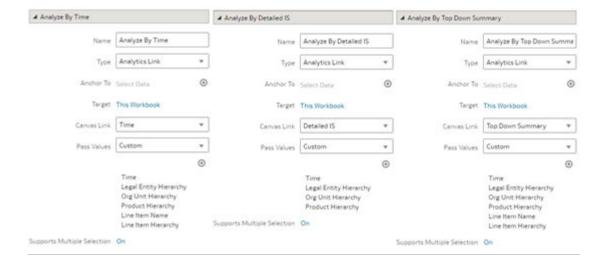
Figure 9-56 Data Action configuration in Detailed Income Statement canvas



Note that although Line Item Name and Hierarchy appear as a pass value, tool limitation currently limits passing these values to the other canvases.

In order to invoke Data Action within Detailed Income Statement report, with a right click on the reporting line selection, the data action option will appear for you to be able to navigate further to the canvas that you select.

Figure 9-57 Data Action configuration in Defined Org Unit canvas

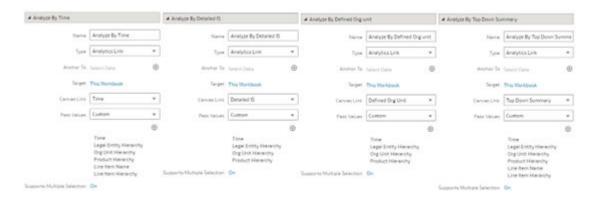


From every chart available in the Defined Org Unit canvas, you can select a value, and then navigate to the Time, Detailed Income Statement or Top Down Summary canvas.

In order to do so, with a right click on the chart selection, the data action option will appear for you to be able to navigate to the canvas you selected.



Figure 9-58 Data Action configuration in Detailed BS



From every chart available in the Detailed BS canvas, you can select a value, and then navigate to the Time, Detailed Income Statement Defined Org Unit, or Top Down Summary canvas.

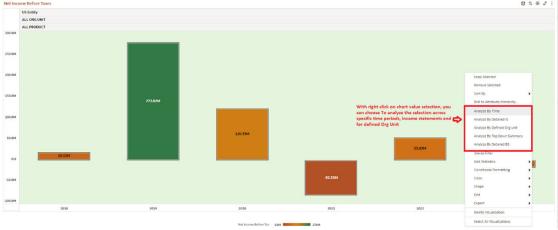
In order to do so, with a right-click on the chart selection, the data action option will appear for you to be able to navigate to the canvas you selected.

9.5.1.3.1 Using a Sample Data Action

The following two screenshots are showing the procedure you have to follow; the first one shows how to perform the data action on a specific selection, and the second one the result of this Data Action Navigation.

Figure 9-59 Use Data Action to Navigate to Defined Org Unit from Top Down Summary

Net become Refere Taxes





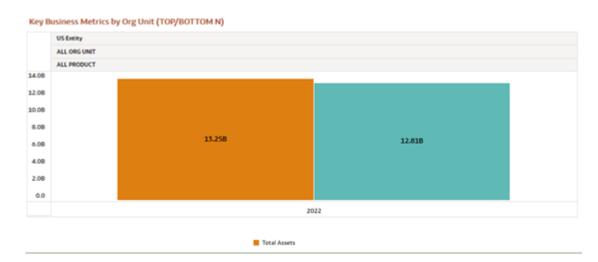


Figure 9-60 Result of Data Action Navigation

9.5.1.4 Top Down Summary

The Top Down Summary Report provides a view of the descriptive analytics related to the heads of Income and Expenses.

You can use a series of Report Prompts, as previously described, to filter the data according to key attributes pertaining to the underlying Management Ledger tables. The canvas provides a summary view to key management reports for better performance tracking and profitability management. Distribution of Assets and Liabilities at enterprise and Income statement Analysis at enterprise/ Legal entity, Org Unit, and Product level along with Impact of on NII and NIM.

The report displays the underlying data according to the following Charts' logic:

 Net Interest Income and Net Interest Margin: The chart displays the absolute value for the Net Interest Income and the Net Interest Margin as a percentage for the selected time level. NIM is usually Net Interest Income expressed as a percentage that is, it is the net interest income a bank or financial institution earns in percentage terms on the average interest-earning assets in a specified period.

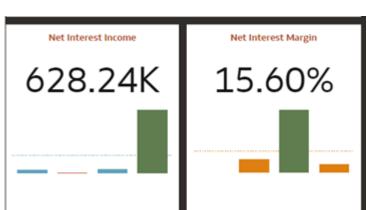


Figure 9-61 Net Interest Income and Net Interest Margin

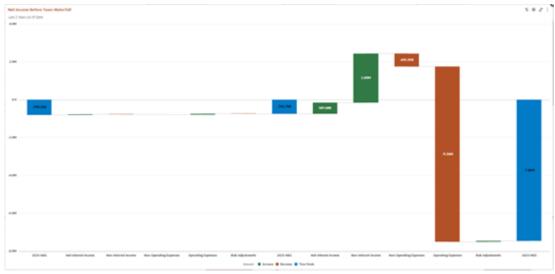
Income Statement: The income statement is a financial statement that shows you the bank's income and expenditures. It also shows whether the bank is making profit or loss for the given period. The Top Down Summary canvas displays a summary Income statement showing selected reporting lines with a dedicated canvas for the detailed statement showing reporting lines at multiple levels. Using the filter prompt in the chart you can select the 2 periods you want to compare.

Figure 9-62 Income Statement



Net Income Before Taxes Waterfall: The NIBT waterfall shows the incremental contribution of the displayed reporting lines over the base period that has been selected as the comparison point. For this report, the default view is of the last two time periods.

Figure 9-63 Net Income Before Taxes Waterfall



Net Income Before Taxes: The chart displays the absolute value for the Net Income Before Taxes for the selected time period/s. The default view of this chart is for the last 5 years from the current As-of-Date.

Net brown before Tass

US Exter
A1, 1006 UNIT
A1, 1006 UN

Figure 9-64 Net Income Before Taxes

Net Income Before Taxes Growth Rates: The chart displays the relative percentage variation of NIBT that is calculated over the previous period available as per the selection.

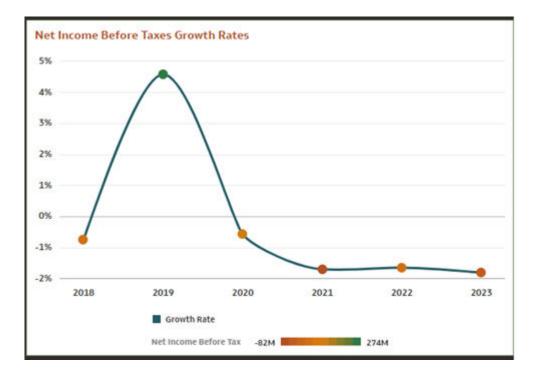
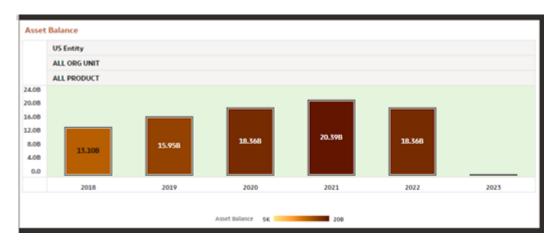
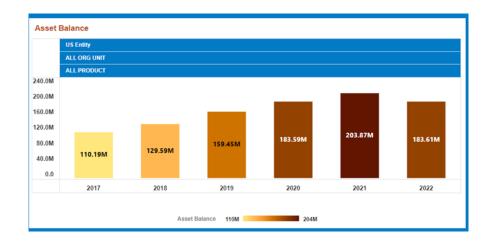


Figure 9-65 Net Income Before Taxes Growth Rates

Asset Balance: The chart displays the absolute value for Asset Balances for the selected time period/s. The default view of this chart is for the last 5 years from the current As-of-Date.

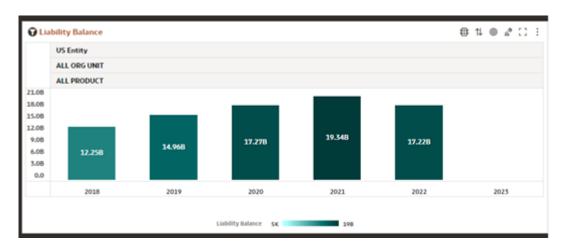
Figure 9-66 Asset Balance





Liability Balance: The chart displays the absolute value for Liability Balances for the selected time period/s. The default view of this chart is for the last 5 years from the current As-of-Date.

Figure 9-67 Liability Balance



Asset and Liability Balance Growth Rates: The chart displays the relative percentage variation of Asset and Liability balance values that is calculated over the previous period available as per the selection. The default view of this chart is a comparison over the past 5 years.

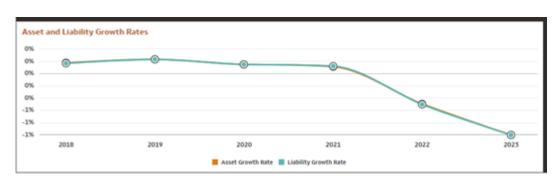


Figure 9-68 Asset and Liability Balance Growth Rates

9.5.1.5 Time

The Time Report allows you to track profitability trends and reporting line trends based on key dimensions, conduct scenario analysis at an aggregated level to gauge profitability variations with Budget and Operating plan. In addition, you can compare actual performance with budgeted/forecasted report.

KPIs are reported across time along with the comparison with plan report users are able to monitor performance, analyze specific metrics, and compare them to budgets or specific benchmarks. They can spot deviations and take corrective action. Opportunities to improve performance can also be identified. The DV tool provides visual representations focusing on the variations observed.



Figure 9-69 Management Reporting



Figure 9-70 Selected Income Statement Reporting Lines

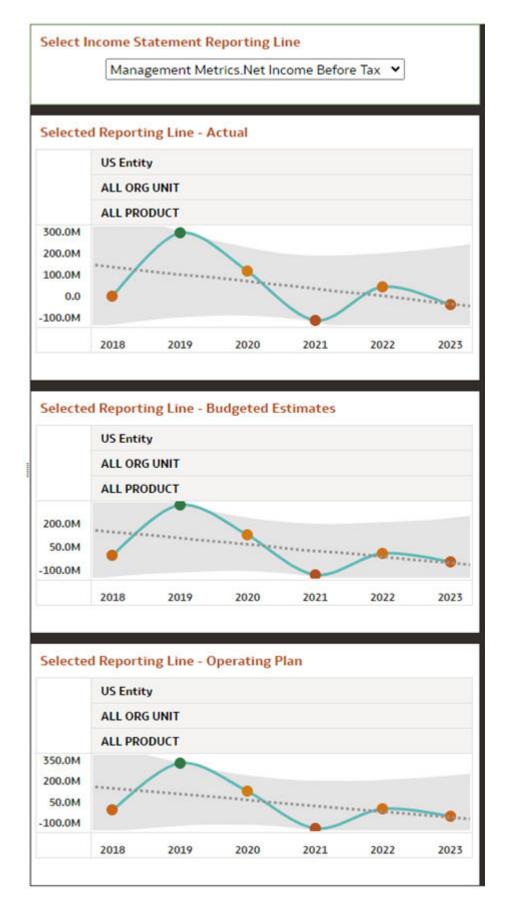


Figure 9-71 Overall Balances

- Key Performance Metrics: The following Key Performance Metrics can be observed from these set of charts.ul
 - Net Interest Margin: NIM is usually Net Interest Income expressed as a percentage
 that is, it is the net interest income a bank or financial institution earns in percentage
 terms on the average interest-earning assets in a specified period.
 - Return on Total Assets: Return on Total Assets (ROTA) is a ratio that measures a company's earnings before taxes (NIBT) relative to its total Assets. It is expressed as a percentage.

| Visit | Festival | Visit | V

Figure 9-72 Key Performance Metrics

The canvas displays the comparisons of the following scenarios:

- Actual: These are actual metric and performance numbers as reported by the bank in their financial statements. These numbers are the outcomes of operations and business strategy that have been executed in the past.
- Budget: A budget's primary goal is to determine how many resources to allocate to each Business Unit. A fallout of the budgeting exercise are specific expectations around revenue and expected reporting lines as well as financial metrics. Budget numbers thus make business units at different levels responsible for the variances with actual numbers.
- Operating Plan: An operating plan is a financial snapshot of the business in future, as it is best understood today. The result is a forecast of how the business is trending taking into account the latest performance drivers. The banks operating plan is updated regularly. In this way, executives can make changes in real time, adjusting their product strategy, market position, marketing approach, and staffing to minimize variance with budget numbers.



9.5.1.6 Detailed IS

The Detailed Income Statement Report as it implies details the granular level reporting lines of the P&L of a bank. Time-series reporting of the income statement, with respect to the last five time periods selected are provided at the granularity of month.

Details of the revenue and expenses lines makes it possible to identify the inconsistencies in these values over time. You can use a series of Report Prompts, as previously described, to filter the data.

The report displays the underlying data according to selection of Levels 2 through 8 that can be done in the chart selection. The default view of the report has the levels 2-5 pre-selected, which has the same view as in the Income Statement Summary on the Top Down canvas.

Levels 2-5

- Total Revenue
- Net Interest Income
- Non-Interest Income
- Total Operating and Non-Operating Expenses
- Operating Expenses
- Non-Operating Expenses
- Income before Taxes
- Provisions for Credit Losses
- Net Income Before Taxes
- Tax Expense

Level 6

- Total Interest Income
- Total Interest Expense
- Non-Interest Revenue
- Indirect Non-interest Income
- Other Revenue
- Advertising and Marketing
- Processing Expenses
- Sales and Marketing Expenses
- Product Management Expenses
- Business Management Expenses
- Indirect Processing Expense
- Indirect Distribution Expense
- Deposit Insurance
- Other Allocated Costs
- Net Credit Losses

Level 7



- Agency Fees
- Print and Production Expenses
- Sales Commissions
- Product Development Expenses
- Miscellaneous Product Management Expenses
- Brand Management Expenses
- Miscellaneous Business Management Expenses
- Technology and Infrastructure Expenses
- Staff Costs
- Depreciation
- Amortization
- Income from Discontinued Operations, Net of Taxes
- Other Expense
- Allocated Indirect Expenses
- Allocated Non-cash Expenses
- Credit Losses
- Recoveries of amounts previously written-off

Level 8

- Other Income Non-Customers
- Allocated Other Income Non-Customers
- Total Brand Management Expenses
- Business Promotion Expenses
- Origination Expenses
- Servicing Expenses
- Collection Expenses
- Direct Sales Expenses
- Other Campaign Expenses
- Miscellaneous Sales Expenses
- Advertising Expenses
- Credit for Other Allocated Liabilities
- Credit for Liquidity
- Amortization of Discount for Liability
- Central Bank Int. Income
- Credit for Float
- Transfer Pricing Credit
- Customer Break Funding Fees
- Amortization of Premium for Asset
- Amortization of Premium for Liability



- Amortization of Discount for Asset
- Transfer Pricing Charge
- Pricing Incentive
- Charge for Basis Risk
- Charge for Central Bank Reserves
- Charge for Liquidity
- Charge for Optionality
- Charge for Other Allocated Assets
- Commission
- Fees
- Penalties
- Other Income Customers
- Waived Fees
- Early Redemption Fee
- Investment Income
- Branch Origination Expenses
- Mail Origination Expenses
- Phone Origination Expenses
- Loan Center Origination Expenses
- Origination Expenses, Other Channels
- Branch Platform Expenses
- Branch Teller Expenses
- In Network ATM Expenses
- Out of Network ATM Expenses
- Call Center Expenses
- E-Banking Expenses
- Statement Processing Expenses
- Loan Processing Expenses
- Compliance Expenses
- Commission on Collections
- Other Collection Expenses
- Amortization of Restructuring Expenses
- Gain or Loss on Sale of Assets from Discontinued Operations
- Income from Discontinued Operations

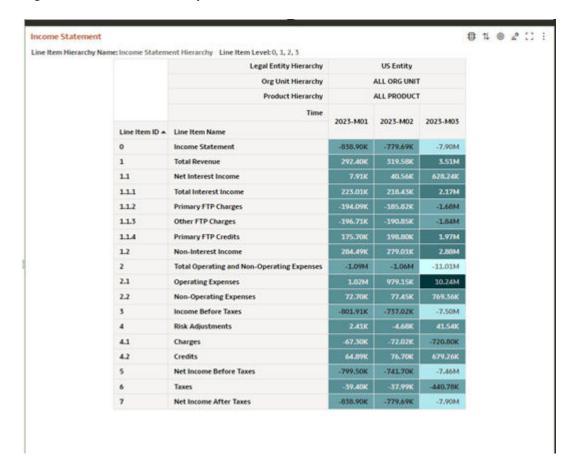
Level 9

- Credit for Equity
- Economic Provision
- Executive and Other Overhead Expenses



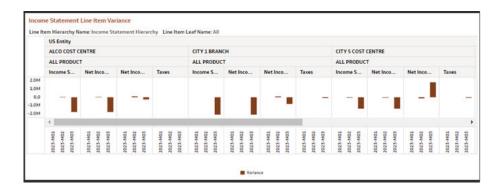
Other Processing Expenses

Figure 9-73 Detailed IS Report Default



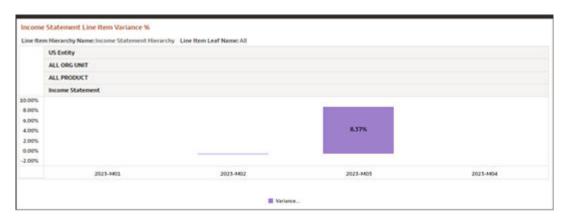
In this chart, you can look at how each Income Statement line item varies with respect to the absolute value during the previous time period.

Figure 9-74 Income Statement Line Item Variance Report



In this chart, you can look at how each Income Statement line item varies with respect to the percentage variation in absolute value when compared with the previous time period.

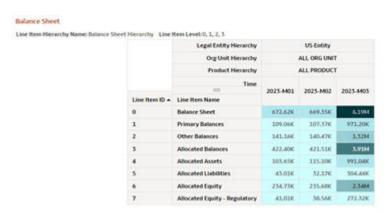
Figure 9-75 Income Statement Line Item Variance % Report



9.5.1.7 Detailed BS

The Detailed Balance Sheet Report as the name implies provides a view of the balance sheet which captures details around all the line items. The user can use the level selection filter to expand or contract the balance sheet.

Figure 9-76 Detailed BS Report Default



The Balance Sheet line item variance and variance % reports work in the same way as in the case of the Detailed Income Statement canvas.

Figure 9-77 Balance Sheet Line Items Variance and Line Item Variance %

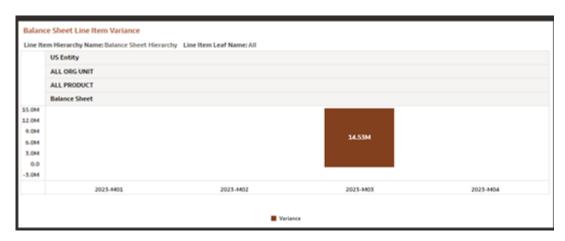
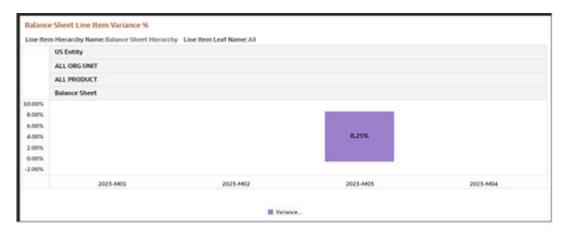


Figure 9-78 Balance Sheet Item Variance % Report



9.5.1.8 Defined Org Unit

The Defined Org Unit report provides a view of the Top Down Ledger Data for different Organizational Units. The canvas empowers all org owners to access actionable profitability insight directly. The users can then assess risk-adjusted metrics such as return on assets (ROTA), return on Net Interest Margin (NIM), risk-adjusted return on capital (RAROC) or key performance indicators such as top 10 products by balance growth.

You can use a series of Report Prompts, as previously described, to filter the data. In addition, there are In-Report prompt selections to select the Top/ Bottom N org units that you are interested in, and the corresponding data will be displayed.

The report displays the underlying data according to the following Charts:

 Org Unit wise contribution for Reporting Line (TOP N); the same is available for bottom view

In this chart, for the selected reporting line, the Top N (N selected from the chart prompt) and bottom N organization units are displayed in descending order of value of the reporting line.



Figure 9-79 Income Statement Reporting Line



The report displays the underlying data according to the following Charts:

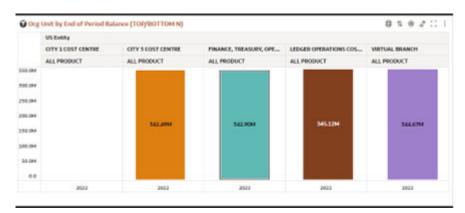
Org Unit wise contribution for Reporting Line (TOP/ BOTTOM N): The same is
available for bottom view In this chart, for the selected reporting line, the Top N (N selected
from the chart prompt) and bottom N organization units are displayed in descending order
of value of the reporting line.

Figure 9-80 Org Unit wise contribution for Reporting Line (TOP/BOTTOM N)



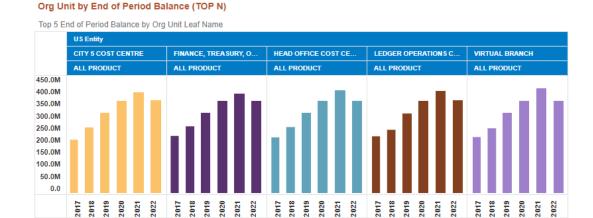
• Org Unit by End of Period Balance (TOP/ BOTTOM N): the same is available for bottom view The chart displays the Top N (N selected from the chart prompt) and bottom N organization units sorted in a descending order by End of Period Balances.

Figure 9-81 Org Unit by End of Period Balance (TOP/BOTTOM N)



• Org Unit by End of Period Balance (TOP N); the same is available for bottom view The chart displays the Top N (N selected from the chart prompt) and bottom N organization units sorted in a descending order by End of Period Balances.

Figure 9-82 Org Unit by End of Period Balance (TOP N)



 Key Business Metrics by Org Unit (TOP/ BOTTOM N): the same is available for bottom view The chart displays the Top N (N selected from the chart prompt) and bottom N organization units sorted in a descending order by End of Period Balances and provides the breakup between Asset and Liability Balances.

Key Business Metrics by Org Unit (TOP/BOTTOM N) US Entity CITY 1 COST CENTRE CITY 3 COST CENTRE FINANCE, TREASURY, OPERATIO... LEDGER OPERATIONS COST CEN... VIRTUAL BRANCH ALL PRODUCT ALL PRODUCT ALL PRODUCT ALL PRODUCT 14.08 12.08 10.08 8.08 13.318 13.318 12.97B 12,97B 12.718 12,30B 12,308 6.08 4.08 2.08 2022 2022 2022 2022 2022 Total Assets

Figure 9-83 Key Business Metrics by Org Unit (TOP/BOTTOM N)

 Key Performance Metrics by Org Unit (TOP/ BOTTOM N): the same is available for bottom view The chart displays the Top N (N selected from the chart prompt) and bottom N organization units sorted in a descending order by End of Period Balances and provides selected KPI's like NIM and ROTA of these Org Units.





Figure 9-84 Key Performance Metrics by Org Unit (TOP/ BOTTOM N)

9.6 Profitability Insights

To access the Processing Analytics report, select **Analytics** from the LHS Menu, and then select **Profitability Insights**.

Profitability Insights provides strategic e a comprehensive view of financial performance around the Institutional and Retail customer of the bank across multiple dimensions, including Organization Unit, Product, Line of Business, Region, Channel, and Customer Performance, all aggregated up from the Instrument level.



Before generating reports and analytics, it is mandatory to set the relevant currencies and currency rates. This is required for generating the reports with correct values. For more information about creating currencies and currency rates, see the following:

- Currencies
- Currency Rates

To feed the Profitability Insights Report, refer to the *Oracle Financial Services Profitability Analytics Cloud Service Data Flow* document available at Doc ID: 2869409.1.

For the Profitability Insights Report refer to the following Data Flow sub-sections:

- PACS Instrument Summary
- PACS Instrument Income Statement

For Income Statement and Balance Sheet Hierarchies, or any other Hierarchy created out of Financial Element dimension, a Financial Element carrying a percentage value cannot be added as a child, Sibling to a child or Leaf under Parent/ Child/ Sibling in the Hierarchy. Users are expected to be mindful not to map a portfolio column to a FE denoting a rate or apply an expression, where a divisor is used in a way that the column value effectively becomes a rate, thus preventing a meaningful roll-up to the node of the hierarchy.

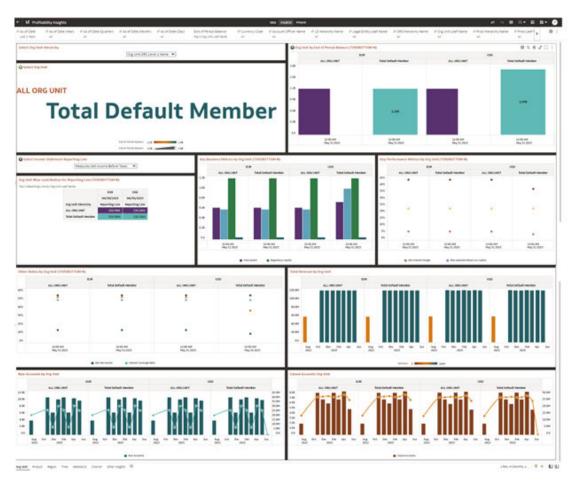


9.6.1 Instrument Level Aggregation and Insights

The Profitability Insights report is arranged as a set of reports, classified into the following:

- Org Unit
- Product
- Region
- Time
- Detailed IS
- Channel
- · Other Insights

Figure 9-85 Profitability Insights



9.6.1.1 Report Common Filters

You can use a series of canvas level pinned Prompts to filter the data according to Functional Key Attributes as follows:

Figure 9-86 Canvas Prompt Filters for Time Dimension



As of Date: You can use this filter to isolate a selected timeframe for the analysis. The
following screenshot displays the possible options that this filter provides against the Time
Dimension.

Figure 9-87 As of Date Selection



- Additional Filters for the Time Dimension as follows:
 - As of Date
 - As of Date (Year)
 - As of Date (Quarter)
 - As of Date (Month)
 - As of Date (Day)

Figure 9-88 Key Processing Dimensions Prompt Filters



Legal Entity Hierarchy Name: Note that this is a mandatory filter for the group filtering on Legal Entity Key Processing Dimension.

As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same

time, a mandatory driver to select "LE Hierarchy Name" must be selected with only a single value simultaneously.

- **Legal Entity Leaf Name:** You can use this filter to select the Legal Entity Leaf Name that is related to the underlying Management Ledger data.
- Org Unit Hierarchy Name: This filter is for the group filtering on Organization Unit key
 processing dimension. As the Application supports the creation of multiple hierarchies for
 the same Dimension of analysis, and to avoid displaying results from multiple Dimension
 Hierarchies at the same time, you must select the "Org Unit Hierarchy Name" with only a
 single value simultaneously.
- Org Unit Leaf Name: You can use this filter to select the Org Unit Leaf Name corresponding to the hierarchy.
- Product Hierarchy Name: Note that this is a mandatory filter for the group filtering on Product Key Processing Dimension.
 As the Application supports the creation of multiple hierarchies for the same Dimension of

As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same time, a mandatory driver to select "Prod Hierarchy Name" must be selected with only a single value simultaneously.

- **Product Leaf Name:** You can use this filter to select the Prod Leaf Name that is related to the underlying Management Ledger data.
- Geography Hierarchy Name: This is a mandatory filter for the group filtering on the Geography Hierarchy.

As the application supports the creation of multiple hierarchies for the same dimension of analysis, to avoid displaying results from multiple hierarchies at the same time, a mandatory driver to select "Geography Hierarchy Name" must be selected.

 Geography Leaf Name: You can use this filter to select the Geography Leaf Name corresponding to the hierarchy.

Figure 9-89 Simple Dimensions Prompt Filters

- **Currency Code:** You can use this filter to select a specific Currency Code to be applied to the underlying management ledger data.
- Account Officer Name: You can use this filter to select the Account Officer or Account Manager for the underlying instrument tables accounts.
- Customer Type Name: You can use this filter to select the Customer Type for the underlying instrument tables accounts.

Figure 9-90 Standard Dimensions Prompt Filters



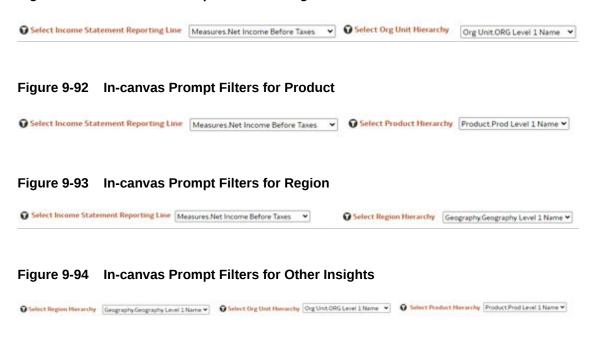
 Geography Leaf Name: You can use this filter to select a specific Geography value at leaf level related to the underlying instrument tables accounts.



- Branch Leaf Name: You can use this filter to select a specific Branch value at leaf level related to the underlying instrument tables accounts.
- **Industry Leaf Name:** You can use this filter to select a specific Industry value at leaf level related to the underlying instrument tables accounts.
- Channel Name:

9.6.1.2 In canvas Variable Prompts

Figure 9-91 In-canvas Prompt Filters for Org Unit



- **Select Org Unit Hierarchy:** You can use this filter to select the Org Unit Level Name pertaining to the Org Unit Hierarchy level, for rolling up the results on the underlying Org Unit Leaves that are part of the selected hierarchy.
- **Select Product Hierarchy:** You can use this filter to select the Product Level Name pertaining to the Product Hierarchy level, for rolling up the results on the underlying Product Leaves that are part of the selected hierarchy.
- **Select Region Hierarchy:** You can use this filter to select the Region Level Name pertaining to the Region Hierarchy level, for rolling up the results on the underlying Region Leaves that are part of the selected hierarchy.
- Select Income Statement Reporting Line: This is a mandatory filter for the group filtering on the Income Statement reporting line dimension. The following filter values are available for selection:
 - Net Income Before Tax: Net income before tax is the amount of profit made by the financial institution before income tax is paid. This figure is found by subtracting total expenses from total revenue.
 - Net Interest Income: Net Interest Income (NII) is the difference between the revenue generated from a bank's interest-bearing assets and expenses incurred while paying its interest-bearing liabilities. A bank's assets consist of personal and commercial loans, mortgages, securities etc. A bank's liabilities typically consist of customer deposits.



- Non Interest Income: The non-interest income is the revenue generated by the banks and financial institutions, usually from the non-core activities (loan processing fee, late payment fees, credit card charges, service charges, penalties, and so on, net off waivers).
- Operating Expenses: Operating Expenses are expenses incurred by the bank or financial institution to carry out normal business operations.
- Provision for Credit Losses: The provision for credit losses is an estimation of
 potential losses that a bank might experience due to credit risk. The provision for credit
 losses is treated as a non-operating expense on the company's financial statements.

9.6.1.3 Report Data Action

The reports provide the capability to analyze data across canvases via a Data Action. The following are the Data Action Configuration details:

Data Actions

Actions

© Actions

P Analysis by Product

Actions Ply Information

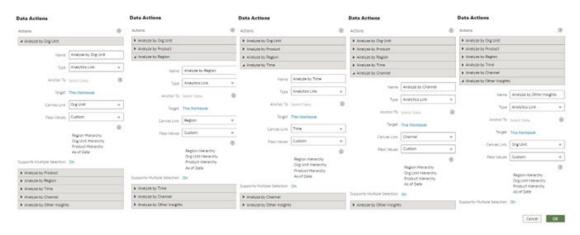
Time Actions Ply Informati

Figure 9-95 Data Action Configuration in Org Unit canvas

From every chart available in Org Unit you can select a value, and then navigate to the Product, Region and Other Insights canvas.

To do so, with a right click on the chart selection, the data action option (Analyze) will appear for you to be able to pass on the data filters to the canvas that you select.





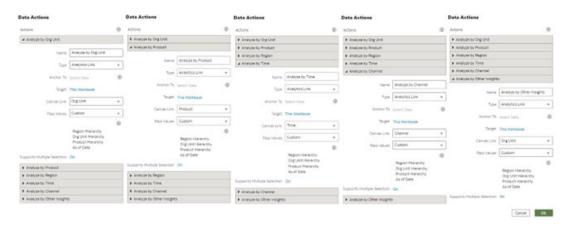


Carce OK

From every chart available in Product you can select a value, and then navigate to the Org Unit, Region and Other Insights canvas.

To do so, with a right click on the chart selection, the data action option (Analyze) will appear for you to be able to pass on the data filters to the canvas that you select.

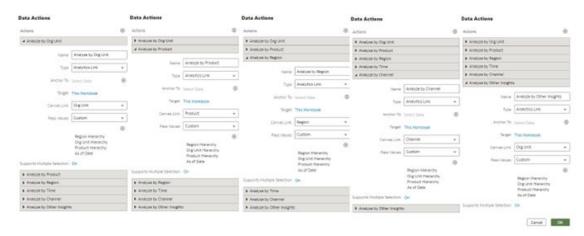
Figure 9-97 Data Action Configuration in Region canvas



From every chart available in Region, you can select a value, and then navigate to the Org Unit, Product and Other Insights canvas.

In order to do so, with a right click on the chart selection, the data action option (Analyze) will appear for you to be able to pass on the data filters to the canvas that you select.

Figure 9-98 Data Action Configuration in Time canvas



From every chart available in Other Insights, you can select a value, and then navigate to the Org Unit, Product and Region canvas.

In order to do so, with a right click on the chart selection, the data action option (Analyze) will appear for you to be able to pass on the data filters to the canvas that you select.



Data Actions

Figure 9-99 Data Action Configuration in Channel canvas

From every chart available in Region, you can select a value, and then navigate to the Org Unit, Product, Region, Time and Other Insights canvas.

In order to do so, with a right-click on the chart selection, the data action option (Analyze) will appear for you to be able to pass on the data filters to the canvas that you select.

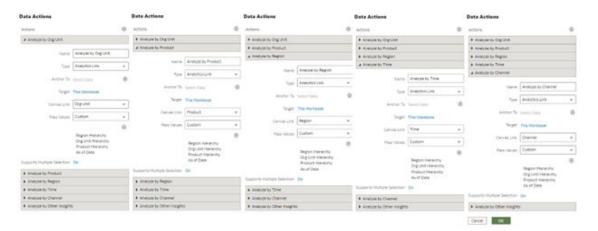


Figure 9-100 Data Action Configuration in Other Insights canvas

From every chart available in Other Insights, you can select a value, and then navigate to the Org Unit, Product and Region canvas.

In order to do so, with a right click on the chart selection, the data action option (Analyze) will appear for you to be able to pass on the data filters to the canvas that you select.

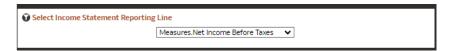
9.6.1.4 Org Unit

Understanding Org Unit performance is of strategic importance to financial services institutions. The "Org Unit" report here is similar to the one we have in the Management Ledger Reporting section except for the fact that the reports are populated on the back off Instrument Summary data with additional reporting.



You can use a series of Report Prompts, as previously described, to filter the data. In addition, there are In-Report prompt selections to select the Top/ Bottom N org units that you are interested in, and the corresponding data will be displayed.

Figure 9-101 Select Income Statement Reporting Line

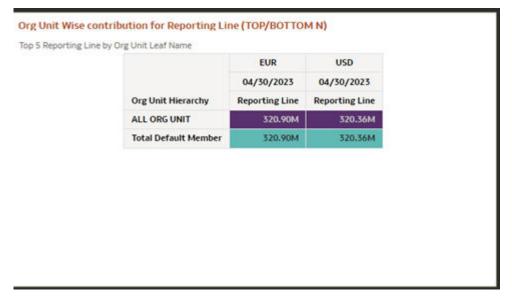


The report displays the underlying data according to the following Charts:

 Org Unit Wise contribution for Reporting Line (TOP N); the same is available for bottom view

In this chart, for the selected reporting line, the Top N (N selected from the chart prompt) and bottom N organization units are displayed in descending order of value of the reporting line.

Figure 9-102 Org Unit Wise contribution for Reporting Line (TOP N)



• Org Unit by End of Period Balance (TOP N); the same is available for bottom view: The chart displays the Top N (N selected from the chart prompt) and bottom N organization units sorted in a descending order by End of Period Balances.

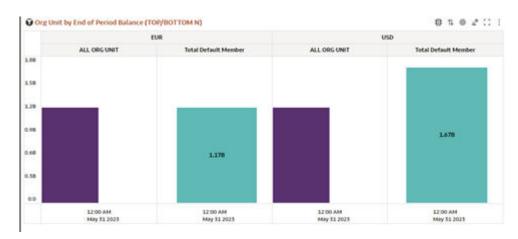


Figure 9-103 Org Unit by End of Period Balance (TOP N)

• Key Business Metrics by Org Unit (TOP N); the same is available for bottom view: The chart displays the Top N (N selected from the chart prompt) and bottom N organization units sorted in a descending order by End of Period Balances and provides the breakup between Asset and Liability Balances along with Regulatory and Economic Capital.

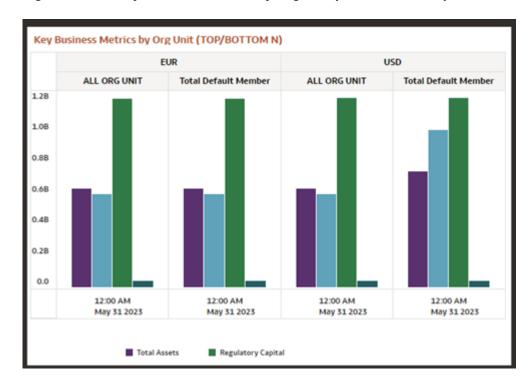


Figure 9-104 Key Business Metrics by Org Unit (TOP/ BOTTOM N)

- Total Assets and Total Liabilities: Total Asset and Total Liability Balances.
- Regulatory Capital: Regulatory Capital is by definition similar to that of Economic capital except for the fact that unlike economic capital, regulatory capital is calculated as per regulations laid down by banking regulators in a country.
- Economic Capital: Economic Capital is the amount of risk capital, which a firm requires to cover the risks that it is running on books and collecting as a risk taking

- enterprise. These risks are typically market risk, credit risk, legal risk, and operational risk. It is the amount of capital that is needed by the bank to stay solvent.
- Key Performance Metrics by Org Unit (TOP N); the same is available for bottom view: The chart displays the Top N (N selected from the chart prompt) and bottom N organization units sorted in a descending order by End of Period Balances and provides selected KPI's like NIM, RAROC, ROE and ROTA of these Org Units.

Key Performance Metrics by Org Unit (TOP/BOTTOM N) EUR ALCO COST CITY 1 CITY 5 COST **HEAD OFFICE** ALCO COST CITY 1 CENTRE BRANCH CENTRE COST CENTRE CENTRE BRANCH 45% 40% 35% 30% 25% 20% 15% 10% 5% 0% 12:00 AM 12:00 AM 12:00 AM 12:00 AM 12:00 AM 12:00 AM May 31 2023 May 31 2 Risk-Adjusted Return on Capital M Net Interest Margin

Figure 9-105 Key Performance Metrics by Org Unit (TOP/ BOTTOM N)

- Net Interest Margin: NIM is usually Net Interest Income expressed as a percentage
 that is, it is the net interest income a bank or financial institution earns in percentage
 terms on the average interest-earning assets in a specified period.
- Return on Total Assets: Return on Total Assets (ROTA) is a ratio that measures a company's earnings before taxes (NIBT) relative to its total Assets. It is expressed as a percentage.
- Risk Adjusted Return on Capital: Risk Adjusted Return on Capital is a ration that measures the financial health of the financial institution. Here NIBT is divided by Unexpected Losses and expressed as a percentage.
- Return on Equity: Return on equity (ROE) is the measure of a bank's net income
 divided by its shareholders' equity. ROE is a gauge of a corporation's profitability and
 how efficiently it generates those profits. The higher the ROE, the better a company is
 at converting its equity financing into profits.
- Other Ratios by Org Unit (TOP N); the same is available for bottom view: The chart
 displays the Top N (N selected from the chart prompt) and bottom N organization units
 sorted in a descending order by End of Period Balances and provides selected business
 metrics like Net Fee Income, Gross Interest Income, Interest Coverage Ratio and Debt
 coverage ratio, all expressed as percentages.





Figure 9-106 Other Ratios by Org Unit (TOP/ BOTTOM N)

- Net Fee Income: Net Fee Income is the revenue generated by the bank from fees and commissions less the waivers expressed as a percentage of Total End of Period Balances.
- Gross Interest Income: Gross Interest Income is the total interest paid by the borrower to the bank relative to its total outstanding balances. It does not account for any interest expenses incurred by the bank or any kind of fees or charges. It is expressed as a percentage.
- Interest Coverage Ratio: The Interest Coverage Ratio measures a bank's ability to meet required interest expense payments related to its outstanding obligations. It is expressed as a ratio of NIBT with Total Interest Expenses expressed as a percentage.
- Operating Expense Ratio: Operating Expense ratio compares operating expenses to Total Revenue. It is a common metric financial institutions use to determine how efficient their management is at keeping operating costs low while also earning revenue.

9.6.1.5 Product

This report provides monthly trended results using that you can monitor product line performance, track earnings trend and other key factors at the product levels.

You can use a series of Report Prompts, as previously described, to filter the data. In addition, there are In-Report prompt selections to select the Top/ Bottom N products that you are interested in, and the corresponding data will be displayed.

The report displays the underlying data according to the following Charts:

 Product wise contribution for Reporting Line (TOP N); the same is available for bottom view: In this chart, for the selected reporting line, the Top N (N selected from the chart prompt) and bottom N products are displayed in descending order of value of the reporting line.



Product Wise contribution for Reporting Line (TOP/BOTTOM N) Top 5 Reporting Line by Prod Leaf Name EUR USD 04/30/2023 05/31/2023 **Product Hierarchy** Reporting Line Reporting Line 32.30M 32.44M **Current Account** 32.04M **Fixed Rate Mortgage** 32.22M 32.33M Offset Mortgage 16.54M Student Loan 16.66M 32.21M Vostro Account Class

Figure 9-107 Product wise contribution for Reporting Line (TOP/ BOTTOM N)

Product by End of Period Balance (TOP N); the same is available for bottom view:
 The chart displays the Top N (N selected from the chart prompt) and bottom N products sorted in a descending order by End of Period Balances.

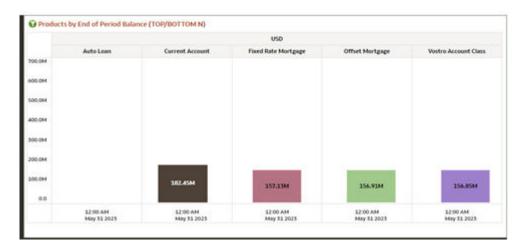


Figure 9-108 Product by End of Period Balance (TOP/ BOTTOM N)

Key Business Metrics by Products (TOP N); the same is available for bottom view:
The chart displays the Top N (N selected from the chart prompt) and bottom N organization units sorted in a descending order by End of Period Balances and provides the breakup between Asset and Liability Balances along with Regulatory and Economic Capital.

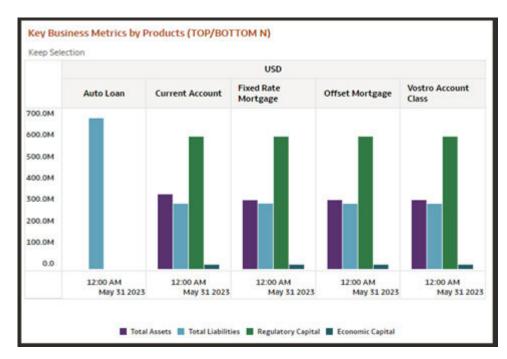


Figure 9-109 Key Business Metrics by Products (TOP/ BOTTOM N)

 Key Performance Metrics by Products (TOP N); the same is available for bottom view: The chart displays the Top N (N selected from the chart prompt) and bottom N products sorted in a descending order by End of Period Balances and provides selected KPI's like NIM, RAROC, ROE and ROTA of these Products.



Figure 9-110 Key Performance Metrics by Products (TOP/ BOTTOM N)

Other Ratios by Products (TOP N); the same is available for bottom view: The chart
displays the Top N (N selected from the chart prompt) and bottom N products sorted in a
descending order by End of Period Balances and provides selected business metrics like

Net Fee Income, Gross Interest Income, Interest Coverage Ratio and Debt coverage ratio, all expressed as percentages.

Figure 9-111 Other Ratios by Products (TOP/ BOTTOM N)

• Total Revenue by product: This chart displays the revenues generated by the products.

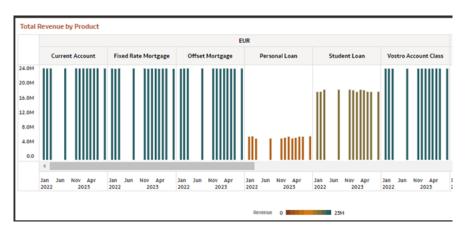


Figure 9-112 Total Revenue by product

New Accounts by product: This chart displays a time series view of the new accounts
opened with the products displayed in trellis columns and the income generated from new
accounts as lines.

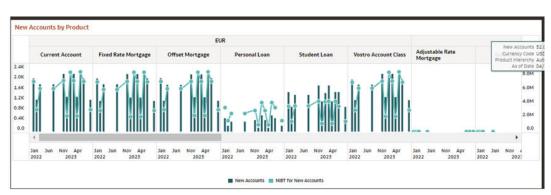


Figure 9-113 New Accounts by product

Closed Accounts by product: This chart displays a time series view of the closed
accounts opened with the products displayed in trellis columns and the income generated
from the closed accounts as lines.

Closed Accounts by Product

EUR

Outrent Account Fixed Rate Mortgage Offset Mortgage Personal Loan Student Loan Vostro Account Class Mortgage 6.60M 4.00M 3.00M 2.00M 1.2K 0.3K 0.3K 0.00

Jan Jun Nov Apr Jan

Figure 9-114 Closed Accounts by product

9.6.1.6 Region

This report enables tracking of Balances, reporting lines, business and performance metrics including comparison with selected regions and regional hierarchy at different levels.

You can use the following report filters to further slice and dice the available report charts:



Figure 9-115 Canvas Prompt Filters

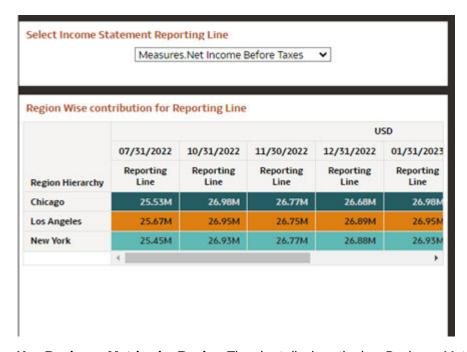
In addition, you can use a series of Report Prompts, as previously described, to filter the data. The report displays the underlying data according to the following Charts:

• **Regions by End of Period Balance:** The chart displays the End of Period Balances for the region hierarchy or leaf level as selected by the user.

Figure 9-116 Regions by End of Period Balance

Region Wise Contribution for Reporting Line: The chart displays the value of the
reporting line for the selected combination of reporting line, leveraging the Select Income
Statement Reporting Line variable prompt, and region hierarchy, as described earlier in
how to leverage Select Region hierarchy.

Figure 9-117 Region Wise Contribution for Reporting Line



• **Key Business Metrics by Region:**The chart displays the key Business Metrics – Total Assets, Total Liabilities, Economic Capital, and Regulatory Capital for the selected Region hierarchy.





Figure 9-118 Key Business Metrics by Region

• **Key Performance Metrics by Region:** The chart displays the key Business Metrics – Net Interest Margin, Return on Total Assets, Risk Adjusted Return on Capital, and Return on Equity for the selected Region hierarchy.

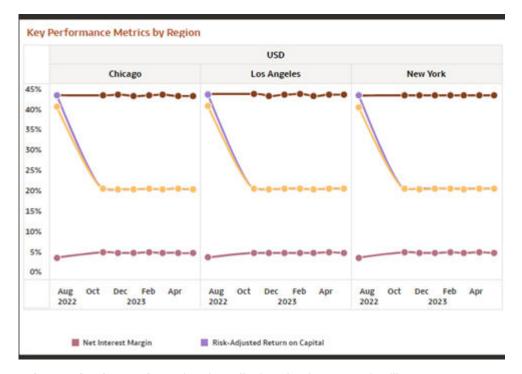


Figure 9-119 Key Performance Metrics by Region

Other Ratios by Region: The chart displays business metrics like Net Fee Income, Gross Interest Income, Interest Coverage Ratio and Debt coverage ratio, all expressed as percentages for the selected region hierarchy.

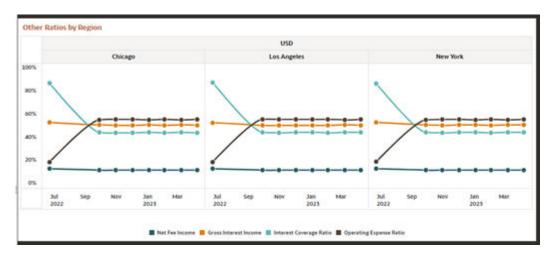


Figure 9-120 Other Ratios by Region

 Total Revenue by Region: The chart displays Total Revenue for the selected region hierarchy.

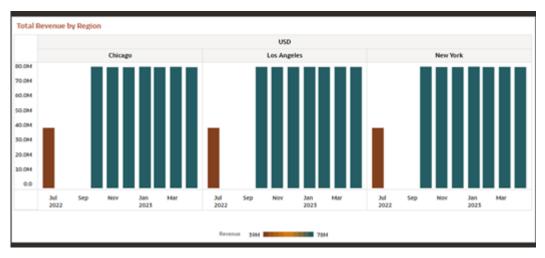


Figure 9-121 Total Revenue by Region

 New Accounts and Closed Accounts by Region: The chart displays business metrics NIBT, number of New Accounts and Closed Accounts over time.

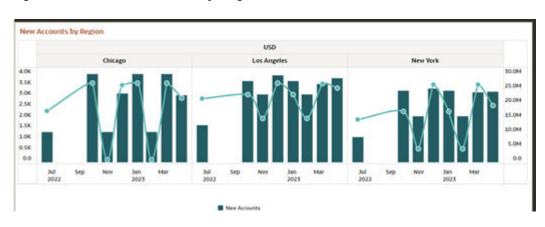


Figure 9-122 New Accounts by Region

Closed Accounts byRegion

0.5K

Chicago USD
Los Angeles New York

2.5K
2.0K
1.5K
2.0K
1.5K
2.0M
1.5K
3.0K

Figure 9-123 Closed Accounts by Region

9.6.1.7 Time

This report provides a view-by-line Time tracking of reporting lines, business, and performance metrics including comparison with time dimension levels.

You can use the following report filters to further slice and dice the available report charts:

Figure 9-124 Canvas Prompt Filters – Time Dimension

As of Date (Year) Planning As of Date (Quarter) Planning As of Date (Month) Planning As of Date (Day) Planning
All All All

Figure 9-125 Variable Prompt Filters



- Select Income Statement Reporting Line: This is a mandatory filter for the group filtering on the Income Statement reporting line dimension. The following filter values are available for selection:
 - Net Income Before Tax: Net income before tax is the amount of profit made by the financial institution before income tax is paid. This figure is found by subtracting total expenses from total revenue.
 - Net Interest Income: Reflects the difference between the revenue generated from a bank's interest-bearing assets and the expenses associated with paying its interestbearing liabilities.
 - Non Interest Income: Income derived primarily from fees including deposit and transaction fees, insufficient funds (NSF) fees, annual fees, monthly account service charges, inactivity fees, check and deposit slip fees, and so on.
 - Operating Expenses: Expenses that a business incurs through its normal business operations.



 Provisions for Credit Loss: Estimation of potential losses that a company might experience due to credit risk. The provision for credit losses is treated as an expense on the company's financial statements.

The view is segmented into three different perspectives. Actual, Budget Estimates, Operating Plan to enable comparison in these by dimensions Currency Code, Region, Organization Unit, and Product Hierarchy.

Figure 9-126 Selected Reporting Line



Figure 9-127 Key Business Metrics

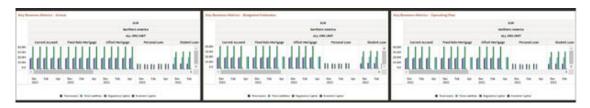


Figure 9-128 Key Performance Metrics

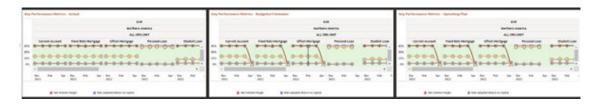
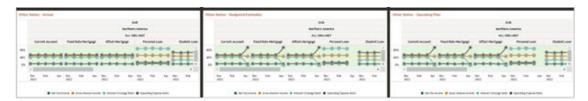


Figure 9-129 Other Ratios -Actual



9.6.1.8 Detailed Income Statement

The Detailed IS Report as it implies details the granular level reporting lines of the P&L of a bank. Time-series reporting of the income statement, with respect to the last five time periods selected and are provided at the granularity of As of Date.

8 1 0 2 C : Income Statement Line Item Hierarchy Name; Income Statement Hierarchy Line Item Levek 0, 1, 2, 3 **Legal Entity Hierarchy US Entity Org Unit Hierarchy** ALL ORG UNIT **Product Hierarchy** ALL PRODUCT Time 2023-M01 2023-M02 2023-M03 Line Item ID . Line Item Name -7.90M Income Statement -838,90K -779.69K 319.58K 297.40K **Total Revenue** 1 40.56K 628.24K 1.1 Net Interest Income 1.1.1 Primary FTP Charges -1.68M -1.84M 1.1.3 Other FTP Charges 1.1.4 **Primary FTP Credits** 1.2 284.49K Non-Interest Income **Total Operating and Non-Operating Expenses** -1.09M -1.06M -11.01M 2.1 10.24M **Operating Expenses** 77.45K 2.2 **Non-Operating Expenses** Income Before Taxes 801.91K -737.02K -7.50M 4.1 -72.02K Charges -67,30K -720.80K 4.2 Credits -741.70K -7.46M -440.78K Taxes 6 -838.90K -779.69K -7.90M **Net Income After Taxes**

Figure 9-130 Detailed IS Report Default

Income Statement Line Items Variance and Line Item Variance %: The Income Statement line item variance and variance % reports work in the same way as in the case of the Detailed Income Statement canvas in Management Reporting.

9.6.1.9 Channel Canvas

This report enables tracking by Organization Channel performance metrics including comparison with selected regions, organizations, and product hierarchies at different levels.

You can use the following report filters to further slice and dice the available report charts:

 New business by Origination Channel report shows the new balances that have been added to the books across the various origination channels during the selected time period.

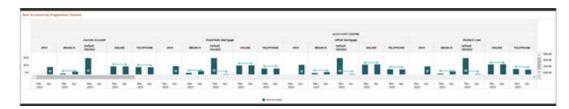
Figure 9-131 New Business by Origination Channel Report





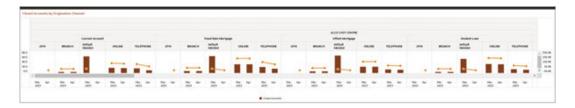
New accounts by Origination Channel report shows the new accounts that have been added to the books across the various origination channels during the selected time period.

Figure 9-132 New Accounts by Origination Channel Report



 Closed accounts by Origination Channel report shows the accounts that have been closed with a view of the origination channels of those accounts during the selected time period.

Figure 9-133 Closed Accounts by Origination Channel



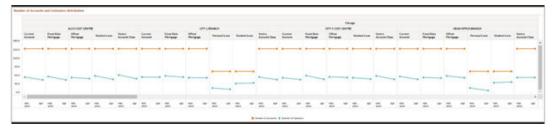
9.6.1.10 Other Insights

The Other Insights report provides granular information on account and customer distribution. This data help banks manage their investments efficiently and invest in areas that are of strategic and financial importance to the bank. You can use a series of Report Prompts, as previously described, to filter the data.

The report displays the underlying data according to the following Charts:

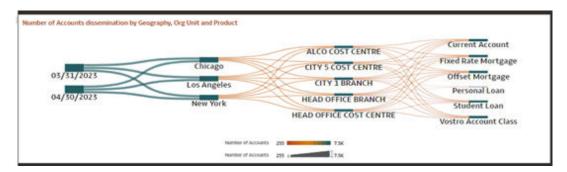
 Number of Accounts and Customers Distribution: The chart displays business metrics like Number of Accounts and Number of Customers for the selected Region, Org Unit and Product hierarchy.

Figure 9-134 Number of Accounts and Customers Distribution



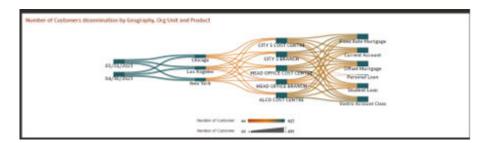
• Number of Accounts dissemination by Geography, Org Unit, and Product: As the name implies, this chart provides a breakup of the number of accounts by Region, Org Unit and Product.

Figure 9-135 Number of Accounts dissemination by Geography, Org Unit and Product



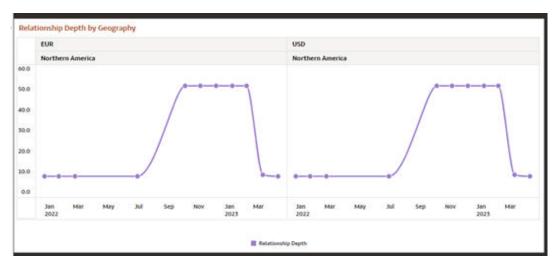
 Number of Customers dissemination by Geography, Org Unit, and Product: As the name implies, this chart provides a breakup of the number of customers by Region, Org Unit and Product.

Figure 9-136 Number of Customers dissemination by Geography, Org Unit and Product



• **Relationship Depth by Geography**: Relationship depth indicates the number of accounts per customer. In this report, this is reported as per Geography.

Figure 9-137 Relationship Depth by Geography



 Number of Accounts by Credit Rating Report: This report shows the credit rating distribution for the accounts in the portfolio, thus giving an indication of the health of the portfolio in terms of risk.



Figure 9-138 Number of Accounts by Credit Rating Report

• X-sell Matrix (Number of Accounts) Report: This report shows a product wise distribution of the number of accounts that have been X-sold from a specific org unit that is selected from the dropdown, Selecting the leaf level option will display the X-sell Matrix.

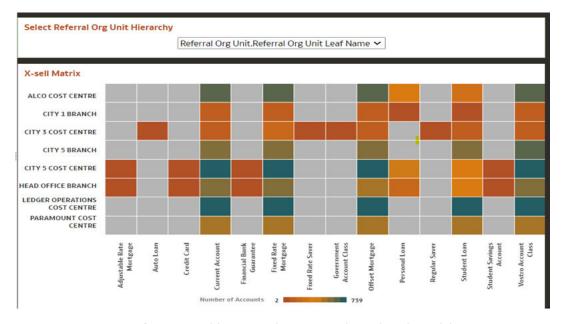


Figure 9-139 X-sell Matrix (Number of Accounts) Report

 New Accounts Trend Report: This report shows a product wise view of the new account openings during the selected time period. This can also ve viewed as per the org unit or region.

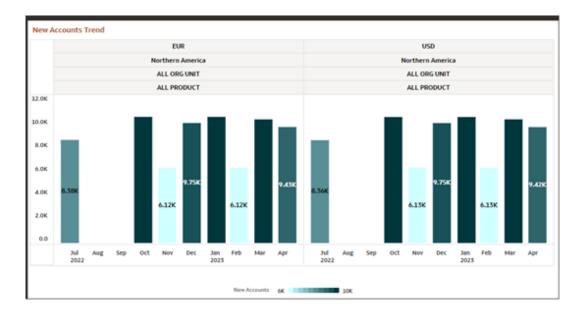


Figure 9-140 New Accounts Trend Report

9.7 Customer Profitability

To access the Processing Analytics report, from the LHS Menu, select **Analytics**, and then select **Customer Profitability**.

Customer Profitability provides you with the roll-up and drill-down capability on the Instrument level the available levels into for product, region, or channel. This comprehensive view explores various insights around customer details and customer comparison with segments into customer relationships.



Before generating reports and analytics, it is mandatory to set the relevant currencies and currency rates. This is required for generating the reports with correct values. For more information about creating currencies and currency rates, see the following:

- Currencies
- Currency Rates

To feed the Customer Profitability Report, refer to the *Oracle Financial Services Profitability Analytics Cloud Service Data Flow* document available at Doc ID: 2869409.1.

For the Customer Profitability Report, refer to the following Data Flow sub-sections:

- PACS Instrument Summary
- PACS Instrument Income Statement
- PACS Instrument Segmentation
- PACS Customer and Account
- PACS Instrument Life Time Value
- PACS Customer Group Income Statement



PACS – Instrument Segmentation Movements

For Income Statement and Balance Sheet Hierarchies, or any other Hierarchy created out of Financial Element dimension, a Financial Element carrying a percentage value cannot be added as a child, Sibling to a child or Leaf under Parent/ Child/ Sibling in the Hierarchy. Users are expected to be mindful not to map a portfolio column to a FE denoting a rate or apply an expression, where a divisor is used in a way that the column value effectively becomes a rate, thus preventing a meaningful roll-up to the node of the hierarchy.

9.7.1 Instrument Level Aggregation and Insights

The Customer Profitability report is arranged as a set of reports, classified into the following:

- Customer Details
- Customer IS
- Customer Life Time Value
- Customer vs Segment
- Segment Comparator
- Segment Analysis
- Segment Income Statement
- Relationship Manager Profitability
- Inter-Segment Movement
- Customer Group Details

9.7.1.1 Report Common Filters

You can use a series of canvas level pinned Prompts to filter the data according to Functional Key Attributes as follows:

Figure 9-141 Canvas Prompt Filters for Time Dimension

As of Date: You can use this filter to isolate a selected timeframe for the analysis. The following screenshot displays this filter's possible options against the Time Dimension.



Figure 9-142 As of Date Selection



Additional Filters for the Time Dimension are as follows:

- As of Date (Year)
- As of Date (Day)

Figure 9-143 Other Canvas Prompt Filters



- **Customer Type Name**: You can use this filter to select the Customer Type for the underlying Instrument Tables Accounts.
- **LE Hierarchy Name**: Note that this is a mandatory filter for the group filtering on Legal Entity Key Processing Dimension.
 - As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same time, a mandatory driver to select "LE Hierarchy Name" must be selected with only a single value simultaneously.
- **Legal Entity Leaf Name**: You can use this filter to select the Legal Entity Leaf Name that is related to the underlying Management Ledger data.
- Org Hierarchy Name: This is a mandatory filter for the group filtering on Org Unit Key
 Processing Dimension. As the Application supports the creation of multiple hierarchies for
 the same Dimension of analysis, and to avoid displaying results from multiple Dimension
 Hierarchies at the same time, a mandatory driver to select "Org Hierarchy Name" must be
 selected with only a single value simultaneously.
- Org Unit Leaf Name: You can use this filter to select the Org Unit Leaf Name corresponding to the hierarchy.
- Product Hierarchy Name: Note that this is a mandatory filter for the group filtering on Product Key Processing Dimension.
 - As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same time, a mandatory driver to select "Prod Hierarchy Name" must be selected with only a single value simultaneously.
- Product Leaf Name: You can use this filter to select the Product Leaf Name corresponding to the hierarchy.



Figure 9-144 Standard Dimensions Prompt Filters



• **Geography Hierarchy Name**: This is a mandatory filter for the group filtering on the Geography Hierarchy.

As the application supports the creation of multiple hierarchies for the same dimension of analysis, to avoid displaying results from multiple hierarchies at the same time, a mandatory driver to select "Geography Hierarchy Name" must be selected.

- **Geography Leaf Name**: You can use this filter to select a specific Geography value at leaf level related to the underlying instrument tables accounts.
- Branch Leaf Name: You can use this filter to select a specific Branch value at leaf level related to the underlying instrument tables accounts.
- Industry Leaf Name: You can use this filter to select a specific Industry value at leaf level related to the underlying instrument tables accounts.
- Currency Code: You can use this filter to select a specific Currency Code for the underlying Instrument Tables Accounts.
- **Segment Type**: You can use this filter to select a specific Segment Type for the Customer Profile.
- Segment Name: You can use this filter to select a specific Segment Type under the classification of segmentation Gold, Silver, Platinum, or Bronze.

9.7.1.2 In-canvas Variable Prompts

Figure 9-145 In-canvas Prompt Filters for Canvas



- **Select Customer Name**: You can use this filter to isolate a selected Customer Name for the analysis.
- Select Customer Number: You can use this filter to isolate a selected Customer Number for the analysis.
- Select Account Number: You can use this filter to isolate a selected Account Number for the analysis.

The following screenshot displays this filter's possible options against the Customer Dimension.

9.7.1.3 Customer Details Canvas

The customer profitability analysis detailed summary displays differents perspectives of customer and household data.

You can select, a customer name, customer number, or account number. This helps in navigating to the profile belonging to the customer.

For example, Select a specific customer as Jonathan Noel.

This displays data available in detail around the accounts of the selected customer.



The Colores Foliated State of Planes State State of State St

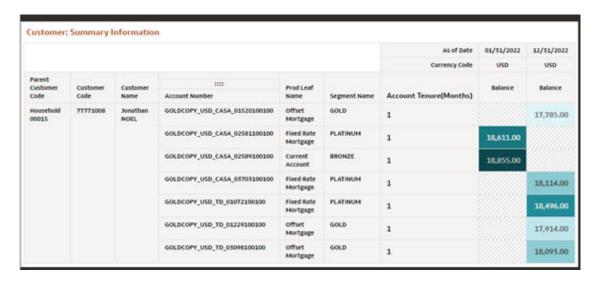
Figure 9-146 Canvas Customer Detail

The customer summary information report shows the following details that are of interest to a front office persona:

- Product Holding
- Tenure of the products
- Account Balance
- Segment Information

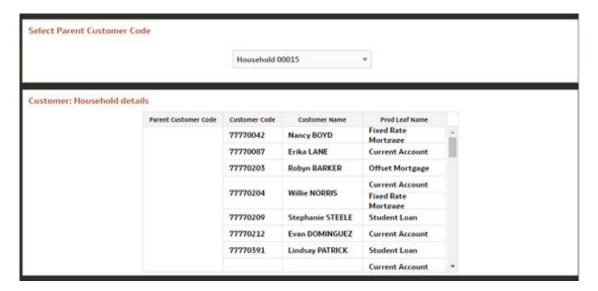
As per selected dates:

Figure 9-147 Report - Customer : Summary Information



This report shows details of the banks customers who belong to the same household as that of the selected customer. The customer names are displayed along with the product holdings. In a wholesale context, this shows the subsidiaries of the selected customer.

Figure 9-148 Report - Customer: Household Details



This report shows the P&L statement for the selected customer. The view is very detailed with all line item leaves. The view can however be compressed by selecting the appropriate level filter.

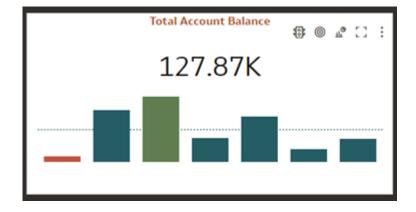


Figure 9-149 Report Income Statement Details



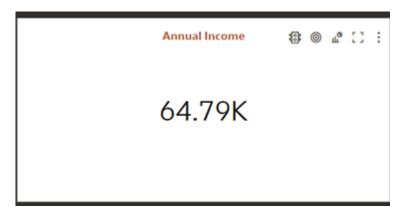
This tile shows a the total balances held by the customer at the bank across asset and liability products. The bars show the amounts for the individual products that are held by the customer, details of which can be viewed via mouseover.

Figure 9-150 Tile - Total Account Balance



This tile shows the customer income in terms of his salary or compensation. For a wholesale customer, this would be the net profits of the enterprise.

Figure 9-151 Tile - Annual Income



This tile shows the average account tenure of the customer at the bank across all his accounts. The bars show the tenures for the individual products/ accounts that are held by the customer, details of which can be viewed via mouseover.

Figure 9-152 Tile - Average Account Tenure



This report displays the NIM, RAROC, ROTA and ROE for the selected customer, aggregated from the customer accounts.

Figure 9-153 Report Key Performance Metrics



This report displays the NFI, GII, Interest Coverage and OpEx for the selected customer, aggregated from the customer accounts.



© Other Ratios

01/51/2022

USD

77771008

100%

80%

80%

84,17%

48,00%

14,15%

16,34%

14,66%

Net Fee income ■ Gross interest income ■ Interest Coverage Ratio ■ Operating Expense Ratio

Figure 9-154 Report - Other Ratios

This report gives a view of the asset and liability balances of the customer as held at the bank across time periods.

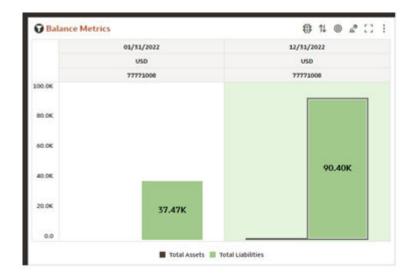


Figure 9-155 Report - Balance Metrics

9.7.1.4 Customer Life Time Value

To access the Customer Life Time Value report, from the LHS Menu, select **Analytics**, select **Customer Profitability**, and then select **Customer Life Time Value**.

Refer to the Runchart available at Doc ID: 2869409.1, then select and execute the **Instrument Life Time Value** with corresponding prerequisites mentioned in the **Index** tab of the Runchart.

To feed the Customer Life Time Value Report, refer to the *Oracle Financial Services*Profitability Analytics Cloud Service Data Flow document available at Doc ID: 2869409.1.

For the Customer Life Time Value Report, refer to the following Data Flow sub-section:

PACS – Instrument Life Time Value

CLTV - Customer Life time Value Calculation Method

We are looking at MTD account level NIBT values and then projecting into the future, the same using the Holt Winters algorithm available in the Oracle database. For arriving at CLTV, the first 30 months get forecasted and forecasts for the subsequent months are capped at the value of the 30th forecast obtained. In essence, we have the total account level NIBT contribution generated till date along with the forecasted contribution for 12, 36 and 60 months into the future. The future contributions for 1, 3 and 5 years are discounted using a discount factor to convert into a present value of future Cash Flows. The combined NIBT contribution generated till date and present value of future discounted Cash Flows give us the account level Lifetime value.

All the designated accounts of the customer are aggregated to arrive at the Customer Lifetime Value.

Sample of a hypothetical calculation method: Customer A has fairly constant NIBT at 100K USD every month (a bit variance here and there) whereas Customer B has an increasing NIBT (start with 80K USD and reaching 120K USD). Both have same CLTV Till Date, but Customer B will have higher forecasted CLTV (5 year) since monthly YTD NIBT shows increasing trend for customer B.

Customer Life time Value Analytics Metrics

- Total Forecast Income: calculated as Total Forecast Net Income Before Taxes
 (discounted for present value using the discount factor that has been set up from
 Preferences UI), the chart shows value for customer accounts as bar including min/max
 and average value via mouse over the tile chart
- Customer Life Time Value (Till Date): calculated as the aggregated value of monthly Net Income Before Taxes for latest 36 months.
- The value of Customer Life Time Value with n year projection (where n = 1,3,5 with each year having 12 monthly forecasts) is arrived at by adding the discounted forecasts for Net Income Before Taxes to the Customer Life Time Value (Till Date) over next n years. Two customers with same Customer Life Time Value (Till Date) may have different CLTV (5 Yr projection) if they exhibit different trends. The customer showing growth in his portfolio (Net Income Before Taxes) will be expected to have a higher CLTV (5 Yr projection).
 - CLTV (1 Yr projection)
 - CLTV (3 Yr projection)
 - CLTV (5 Yr projection)

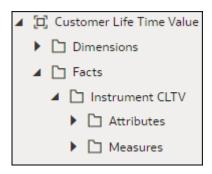
Figure 9-156 Customer Life Time Value - 5 years

Total Forecast Income	Customer Life Time Value (Till Date)	CLTV (1 Yr projection)
79.17M	73.86M	91.71M
	CLTV (3 Yr projection)	CLTV (5 Yr projection)
	124.23M	153.04M



The aforementioned CLTV – Customer Life time Value Analytics metrics are available in the out-of-the-box Customer Profitability Report as well as in the following subject area (the available granularity for these metrics is at account contract level):

Figure 9-157 Customer Life Time Value



9.7.1.5 Customer vs Segment

This dashboard presents the customer as a comparison with the segment that he belongs to or any other segment of interest to the analyst.

For example, Select a specific customer as Jonathan Noel.

Exploring metrics around the customer's annual income, the net income before taxes, the number of accounts belonging to the customer, credit score, and others.

Next, you can view the number of transactions across the different channels. And track the dimensional analysis for the average transaction amount.

Figure 9-158 Canvas Customer vs Segment



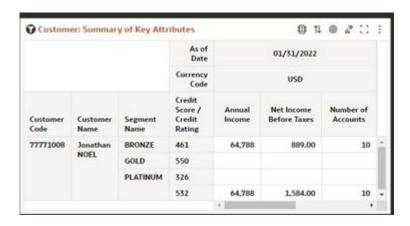


Report – Customer : Summary Key Attributes: This report displays the following customer attributes:

- · Credit Score/ Credit Rating as is the case for a Retail or Wholesale customer
- Segment
- Annual Income
- NIBT
- # Accounts

This report gives a view across selected time periods.

Figure 9-159 Report – Customer : Summary Key Attributes



Report Total Number of Transactions by Channel: This report gives a view of the total number of transactions in different channels across time periods.

Figure 9-160 Report Total Number of Transactions by Channel



Report : Average Transaction Amount by Channel: This report gives a view of the average transaction amounts in different channels across time periods.

Customer: Average Transaction Amount by Channel

USD

Customer Profile 2

BRONZE

GOLD

PLATINUM

300.0K
200.0K
300.0K
0.0

Jan Dec Jan Dec Jan 2022

Channel Name

BRANCH

Default Member

ONLINE

Figure 9-161 Report : Average Transaction Amount by Channel

In-canvas Prompt Filter to select Segment for comparison

Figure 9-162 In-canvas Prompt Filter to select Segment for comparison



Report : Segment Summary Key Attributes

Figure 9-163 Report : Segment Summary Key Attributes



Report : Average Number of Transactions by Channel for selected Segment



Segment: Average Number of Transactions by Channel

USD

Customer Profile 2

BRONZE

GOLD

PLATINUM

SHLVER

500.0
250.0
250.0
150.0
100.0
50.0
0.0

Jan Dec Jan Dec Jan Dec Z022

Channel Name

ATM BRANCH Default Member ONLINE TELEPHONE

Figure 9-164 Report : Average Number of Transactions by Channel for selected Segment

Report: Average Transaction Amount by Channel for selected segment



Figure 9-165 Report : Average Transaction Amount by Channel for selected segment

9.7.1.6 Segment Comparator

In this dashboard, the dimensions and attributes are compared across Segments.

For instance, segment 1 versus segment 2.

Currently, the comparison exists for Industry, Product Distribution, Net Income Before Taxes, Customer Annual Income, and Credit Score. This comparison can be analysed across time periods.

Note that if it's a retail customer rather than a wholesale one, you can move from the actual industry to the profession. The same logic is applicable for Credit Score and Credit Rating.

Note that The segment Type for the purposes of the illustration is Demographic (for retail use case).



Figure 9-166 Canvas Segment Comparator



• **Segment 1**: You can use this filter to select, for a specific Segment Type the specific segmentation scheme - Gold, Silver, Platinum, or Bronze.

Figure 9-167 In-canvas Prompt Filters for Segment 1



• **Currency Code**: You can use this filter to select a specific Currency Code for the underlying Instrument Tables Accounts.

Figure 9-168 In-canvas Prompt Filters for Currency



• **Segment 2**: You can use this filter to select, for the Segment Type corresponding to Segment 1, the specific segmentation scheme against which you want to compare Segment 1 selection with.

Figure 9-169 In-canvas Prompt Filters for Segment 2



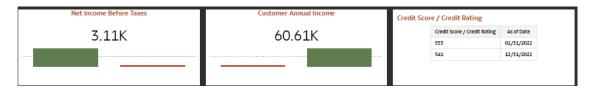
Report Segment 1 - Industry and Product Distribution: This report gives a view of the Industry/ Profession and Product Distribution of Segmentation scheme selected as Segment 1 across time periods.



Figure 9-170 Report Segment 1 - Industry and Product Distribution

This report gives a view of the Average NIBT, average customer income and average credit score/distribution of credit ratings of Segmentation scheme selected as Segment 1 across time periods.

Figure 9-171 Report Segment 1 Details



Report Segment 2 - Industry and Product Distribution: This report gives a view of the Industry/ Profession and Product Distribution of the comparator Segmentation scheme selected as Segment 2 across time periods.



Figure 9-172 Report Segment 2 - Industry and Product Distribution

This report gives a view of the Average NIBT, average customer income and average credit score/ distribution ofcredit ratings of the comparator Segmentation scheme selected as Segment 2 across time periods.

Figure 9-173 Report Segment 2 Details



9.7.1.7 Segment Analysis

This canvas provides Detailed Analysis at the Segment Level (for all Segments and Segment Types as defined by the user).

You can use a series of Report Prompts, as previously described, to filter the data. In addition, there are In-Report prompt selections to select the Top/ Bottom N org units that you are interested in and the corresponding data will be displayed.



Common Productions

| Part Alleans | Part Allean

Figure 9-174 Canvas Segment Analysis

Figure 9-175 Target Cloud for Segment Type - Customer Profile 2



Report - Segment by End of Period Balance (Top/Bottom N): The chart displays the Top N (N selected from the chart prompt) and bottom N Segments sorted in a descending order by End of Period Balances.

Figure 9-176 Report - Segment by End of Period Balance (Top/Bottom N)

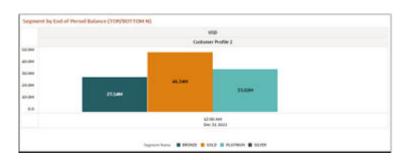


Figure 9-177 In-canvas Prompt Filter Income Statement Report Line



Report - Segment Wise contribution for Report Line (Top/ Bottom N): In this chart, for the selected reporting line, the Top N (N selected from the chart prompt) and bottom N Segments are displayed in descending order of value of the reporting line.

Figure 9-178 Report - Segment Wise contribution for Report Line (Top/ Bottom N)



Report - Key Business Metrics by Segment (Top/ Bottom N): The chart displays the Top N (N selected from the chart prompt) and bottom N Segments sorted in a descending order by End of Period Balances and provides the break up between Asset and Liability Balances along with Regulatory and Economic Capital.



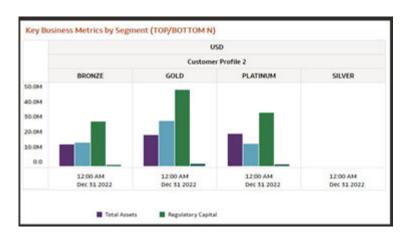
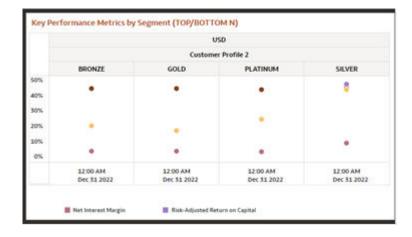


Figure 9-179 Report - Key Business Metrics by Segment (Top/ Bottom N)

Report - Key Performance Metrics by Segment (Top/ Bottom N): The chart displays the Top N (N selected from the chart prompt) and bottom N Segments sorted in a descending order by End of Period Balances and provides selected KPI's like NIM, RAROC, ROE and ROTA of these Segments.

Figure 9-180 Report - Key Performance Metrics by Segment (Top/ Bottom N)



Report - Other Ratios by Segment (Top/ Bottom N): The chart displays the Top N (N selected from the chart prompt) and bottom N segments sorted in a descending order by End of Period Balances and provides selected business metrics like Net Fee Income, Gross Interest Income, Interest Coverage Ratio and Debt coverage ratio, all expressed as percentages.

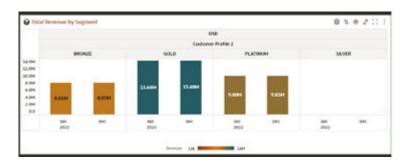


Figure 9-181 Report - Other Ratios by Segment (Top/ Bottom N)



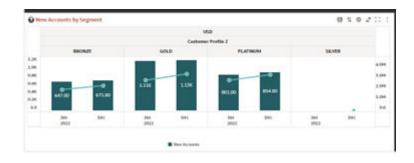
Report - Total Revenue by Segment (Top/ Bottom N): The chart displays the Top N (N selected from the chart prompt) and bottom N Segments sorted in a descending order of Revenues of these Segments.

Figure 9-182 Report - Total Revenue by Segment (Top/ Bottom N)



Report - New Accounts by Segment: The chart displays the Top N (N selected from the chart prompt) and bottom N Segments sorted in a descending order of number of new accounts of these Segments across time periods.

Figure 9-183 Report - New Accounts by Segment



Report - Closed Accounts by Segment: The chart displays the Top N (N selected from the chart prompt) and bottom N Segments sorted in a descending order of number of closed accounts of these Segments across time periods.



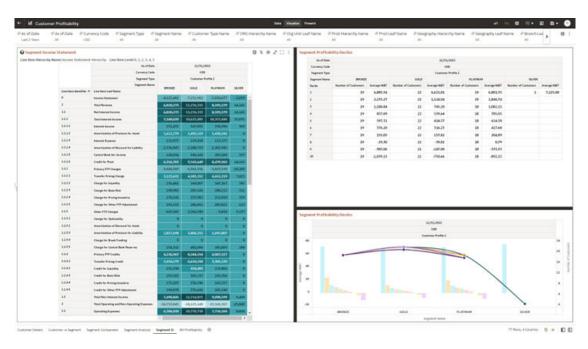
Closed Accessits by Segment | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100

Figure 9-184 Report - Closed Accounts by Segment

9.7.1.8 Segment Income Statement

In this dashboard, Detailed Income Statement at Segment Level (for all Segments within selected Segment Type, as defined by the user) can be viewed.

Figure 9-185 Canvas Segment Income Statement



Report : Segment Income Statement: This view provides Detailed Segment level Income Statement in same format, as can be seen in other detailed income statements.

Figure 9-186 Report : Segment Income Statement



Table Segment Profitability Deciles: For a selected Segment type, the profitability deciles table show the customer distribution across the different segments and shows income generated by customers of these segments in a decile view, the top decile showing the most profitable customers of the segment. This # customers and average NIBT can be compared across segments for the selected segment type.

Figure 9-187 Table Segment Profitability Deciles



Canvas Segment Profitability Deciles: For a selected Segment type, the profitability deciles chart, visually shows the customer distribution across the different segments and shows income generated by customers of these segments in a decile, the top decile showing the most profitable customers of the segment. This # customers is shown by the line chart and average NIBT shown by the bars in this double axis chart.



Support in chicking the day.

Figure 9-188 Canvas Segment Profitability Deciles

9.7.1.9 RM Profitability

In this canvas, Relationship manager performance can be monitored at multiple dimensions – You can choose Choose Relationship manager (Account Officer) hierarchy in the dropdown and understand profitability at individual and org level.

And Colds | Plant Colds | P

Figure 9-189 Canvas RM Profitability

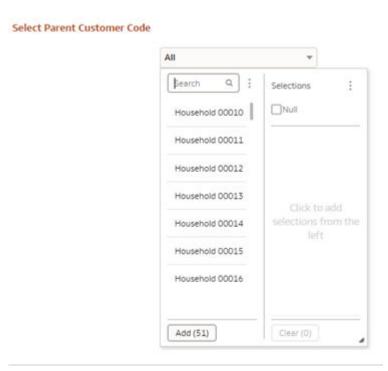
Account Officer: You can use this filter to select all or specific Account Officer.

Figure 9-190 In-canvas Prompt Filter Account Officer



Parent Customer Code: You can use this filter to select all or specific Parent Customer Code, which specifically supports wholesale use cases for customer Group structures.

Figure 9-191 Parent Customer Code



Report - Relationship Manager Income Statement: The report shows a detailed Income statement at the level of the relationship manager for selected customer group for accurate Expense Analysis & Revenue breakdowns with a view of overall income generated to the bank.

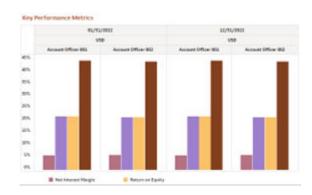


Figure 9-192 Report - Relationship Manager Income Statement



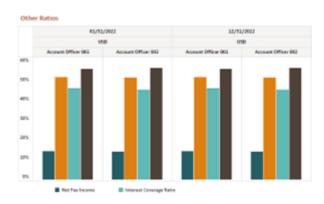
Report - Key Performance Metrics: The report shows the following KPI's – NIM, RAROC, ROE and ROTA at the level of the relationship manager for selected customer group.

Figure 9-193 Report - Key Performance Metrics



Report - Other Ratios: The report shows the following selected business metrics like Net Fee Income, Gross Interest Income, Interest Coverage Ratio and Debt coverage ratio, all expressed as percentages, at the level of the relationship manager for selected customer group.

Figure 9-194 Report - Other Ratios





Report - Balance Metrics: The report shows Asset and Liability Balances at the level of the relationship manager for selected customer group.



Figure 9-195 Report - Balance Metrics

9.7.1.10 Inter-Segment Movement

In this canvas, comparative analysis is done of account and balance movement with respect to the previous time period (for all defined segments and segment types as detailed by customer profile.

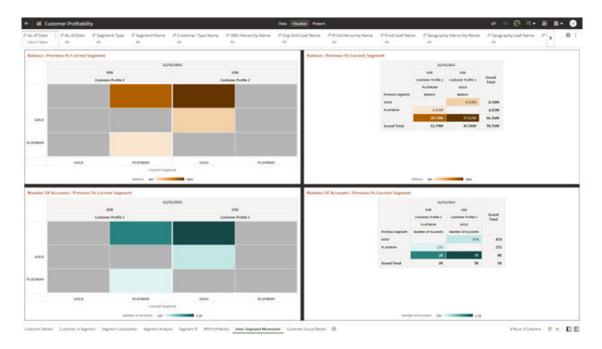


Figure 9-196 Inter-Segment Movement Canvas

Report – Balance: Previous Vs Current Segment: The following report shows the following the Heat Map of Balance movement at the level of the segment and currency.

Balance : Previous Vs Current Segment

12/51/2022

EUR
USD

Customer Profile 2

Customer Profile 2

PLATINUM

GOLD

PLATINUM

GOLD

PLATINUM

Current Segment

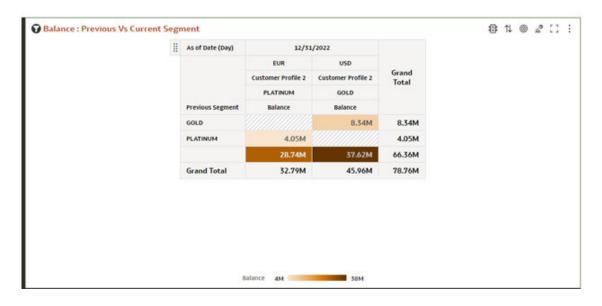
Balance 4M

38M

Figure 9-197 Report - Balance: Previous Vs Current Segment

Balance: Previous Vs Current Segment: The report shows the same information as above by Segment dimension showing amount details.

Figure 9-198 Report – Balance: Previous Vs Current Segment



Report – Number of Accounts: Previous Vs Current Segment - The following report shows the following the Heat Map of movement of the number of accounts at the level of the segment and currency.

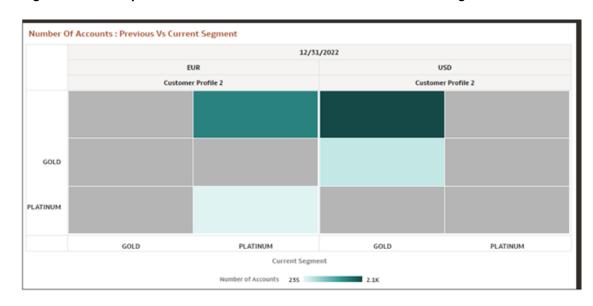


Figure 9-199 Report – Number of Accounts: Previous vs Current Segment

Report – Number of Accounts: Previous Vs Current Segment - This report shows the same information as above by showing detailed number of accounts.

1 0 4° 13 : Number Of Accounts: Previous Vs Current Segment 12/31/2022 EUR USD Grand Customer Profile 2 **Customer Profile 2** GOLD 474 474 GOLD 235 235 4K **Grand Total** Number of Accounts 235 2.1K

Figure 9-200 Report - Number of Accounts: Previous vs Current Segment

9.7.1.11 Customer Group Details

This canvas depicts the detailed Income Statement and profitability information of a hierarchical Customer structure at the group level.

Figure 9-201 Customer Group Details Canvas



Figure 9-202 Filter Retail or Wholesale



Figure 9-203 Filter Customer Group



Report – Group Income Statements: The report shows the detailed income statement of the selected customer at a group level, including those of the child customers.

Figure 9-204 Group Income Statement Canvas



Report – Key Business Metrics: The report shows the Key Business Metrics for the selected customer group including the child customers.

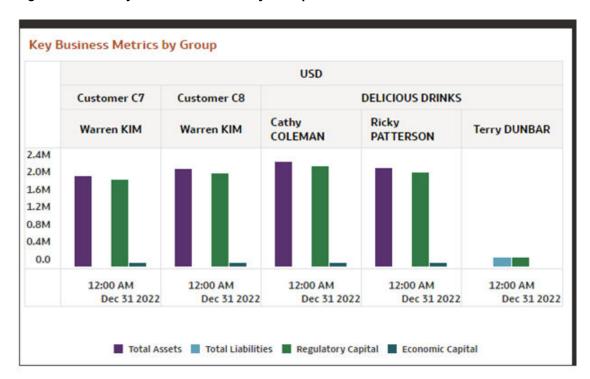
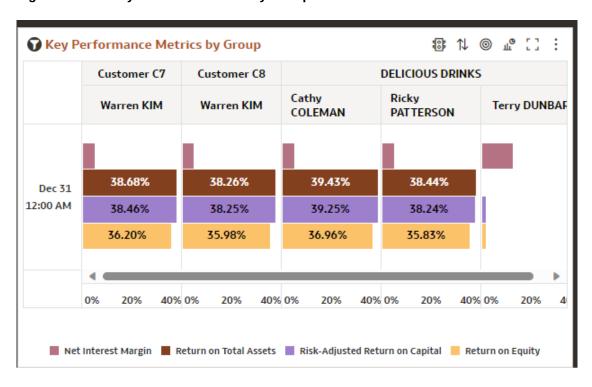


Figure 9-205 Key Business Metrics by Group Canvas

Figure 9-206 Key Business Metrics by Group Canvas

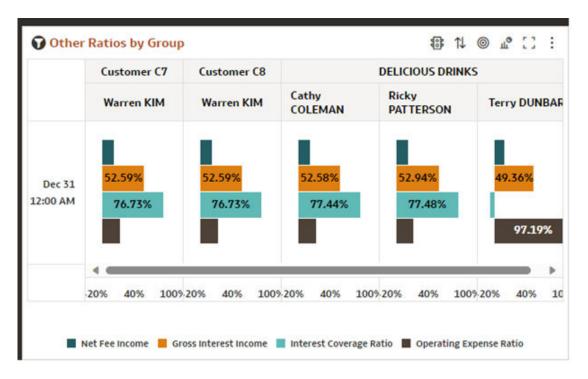


Report – Other Ratios: The report shows the following ratios for the selected customer group including the child customers, expressed as percentage.

· Net Fee Income

- Gross Interest Income
- Interest Coverage Ratio
- Operating Expense Ratio

Figure 9-207 Other Ratios by Group Canvas



9.8 Geography Profitability

When you select the Geographic location and map it to the key dimensions of Profitability Analytics, the Profitability Insights Geography Profitability report which displays all the summary measures of profitability, KPI's and Business metrics. These are revenue, end of period balance, total assets, total liabilities, regulatory capital, economic capital, net interest margin, return on total assets, risk-adjusted return on capital, return on equity, net fee income, gross interest income, interest coverage ratio and operating expense ratio.

To feed the Geography Profitability Report, refer to the *Oracle Financial Services Profitability Analytics Cloud Service Dataflow* document available at Doc ID: 2869409.1.

For the Geography Profitability Report refer to the following Data Flow sub-sections:

- PACS Instrument Summary
- PACS Instrument Geography

Overall Layout of Geography Canvas

All reports in the Geography Canvas have two layers: one for the city and another for the country. The color gradation is self explanatory and varies as per the value of the metric or measure depicted. Because of the presence of two layers, the overall map is colored as the average value of the measure. This color can be disabled by clicking on the polygon corresponding to the overall map.



The Summary canvas in Geography Profitability provides a map based depiction of profitability measures as follows:

Constituting
 C

Figure 9-208 Geography Profitability Summary

9.8.1 Report Common Filters

You can use a series of canvas level pinned Prompts to filter the data according to Functional Key Attributes as follows:

Figure 9-209 Canvas Prompt Filters for Time Dimension



As of Date: You can use this filter to isolate a selected timeframe for the analysis. The following screenshot displays this filter's possible options against the Time Dimension.

Figure 9-210 Filter Date



Additional Filters for the Time Dimension are as follows:

- As of Date
- As of Date (Year)
- As of Date (Quarter)
- As of Date (Month)
- As of Date (Day)

Figure 9-211 Key Processing Dimensions Prompt Filters

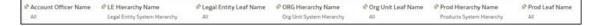


Figure 9-212 Key Processing Dimensions Prompt Filters



- Account Officer Name: You can use this filter to select the Account Officer or Account Manager for the underlying Instrument Tables Accounts.
- **LE Hierarchy Name**: Note that this is a mandatory filter for the group filtering on Legal Entity Key Processing Dimension.

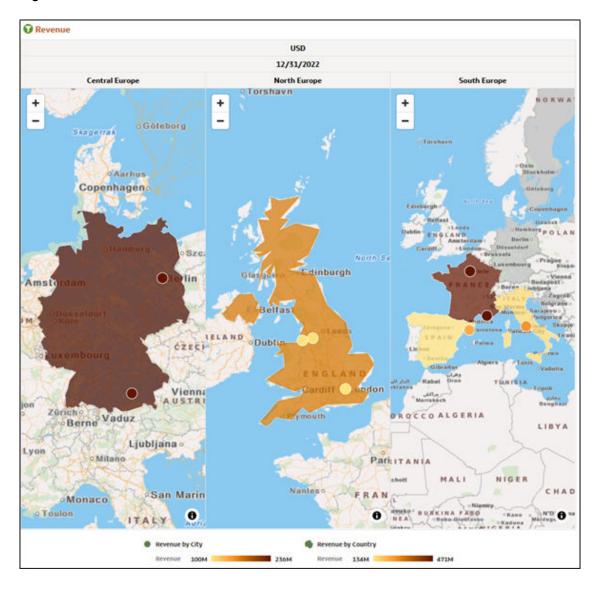
As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same

- time, a mandatory driver to select "LE Hierarchy Name" must be selected with only a single value simultaneously.
- Legal Entity Leaf Name: You can use this filter to select the Legal Entity Leaf Name that
 is related to the underlying Management Ledger data.
- Org Unit Hierarchy Name: This is a mandatory filter for the group filtering on Org Unit Key Processing Dimension.
 - As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same time, a mandatory driver to select "Org Unit Hierarchy Name" must be selected with only a single value simultaneously.
- **Org Unit Leaf Name**: You can use this filter to select the Org Unit Leaf Name corresponding to the hierarchy.
- Prod Hierarchy Name: Note that this is a mandatory filter for the group filtering on Product Key Processing Dimension.
 - As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same time, a mandatory driver to select "Prod Hierarchy Name" must be selected with only a single value simultaneously.
- Prod Leaf Name: You can use this filter to select the Product Leaf Name corresponding to the hierarchy.
- **Geography Hierarchy Name**: This is a mandatory filter for the group filtering on the Geography Hierarchy.
 - As the application supports the creation of multiple hierarchies for the same dimension of analysis, to avoid displaying results from multiple hierarchies at the same time, a mandatory driver to select "Geography Hierarchy Name" must be selected.
- **Geography Leaf Name**: You can use this filter to select a specific Geography value at leaf level related to the underlying instrument tables accounts.
- Customer Type: You can use this filter to select the Customer Type for the underlying Instrument Tables Accounts.
- Branch Leaf Name: You can use this filter to select the Branch Leaf Name that is related to the underlying Branch.
- **Industry Leaf Name**: You can use this filter to select the Industry Leaf Name that is related to the underlying Industry.
- Channel Name: You can use this filter to select the Channel Name for the underlying channels.



9.8.2 Summary Tab

Figure 9-213 Revenue



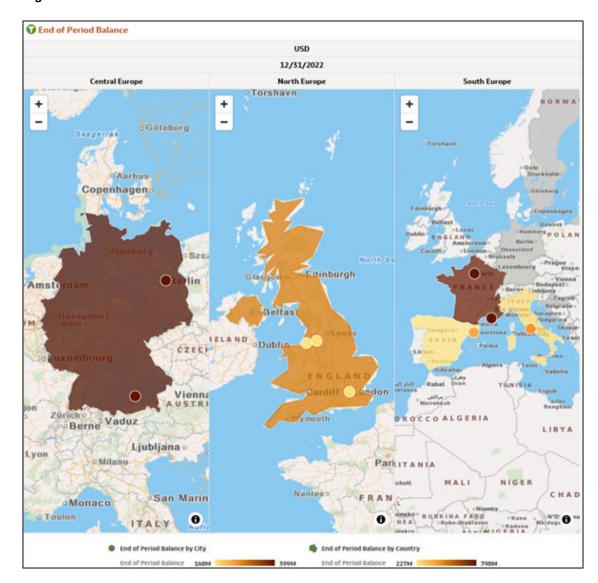


Figure 9-214 End of Period Balance

9.8.3 Key Business Metrics Tab

The Key Business Metrics canvas within Geography Profitability provides a map based depiction of profitability measures as follows:

Figure 9-215 Total Assets

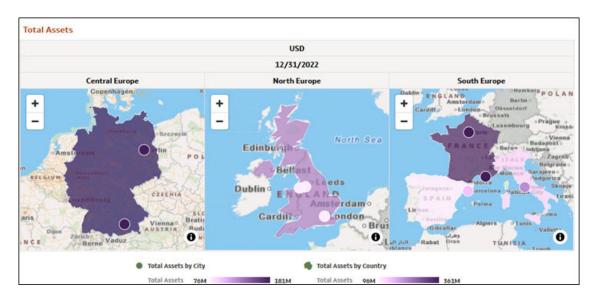


Figure 9-216 Total Liabilities

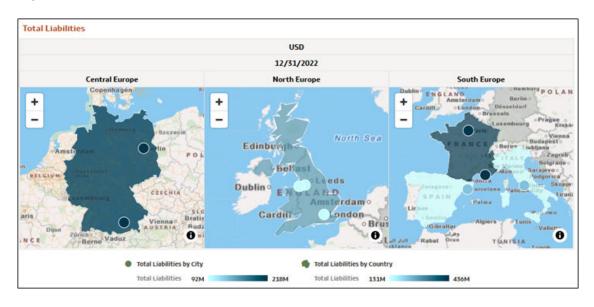


Figure 9-217 Regulatory Capital

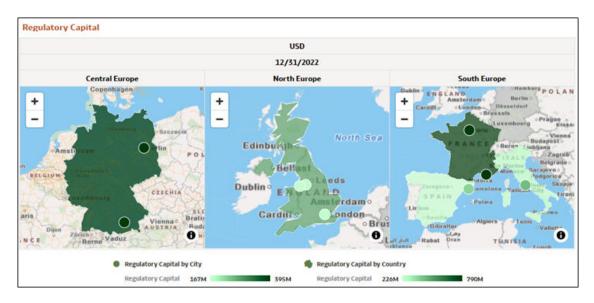
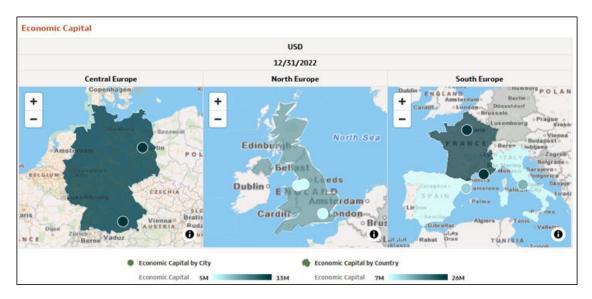


Figure 9-218 Economic Capital



9.8.4 Key Performance Metrics Tab

The Key Performance Metrics canvas within Geography Profitability provides a map based depiction of profitability measures as follows:

Figure 9-219 Net Interest Margin

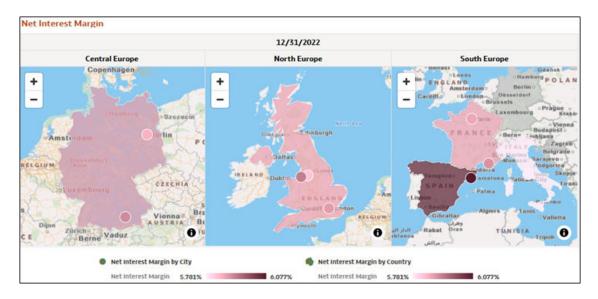


Figure 9-220 Return on Total Assets

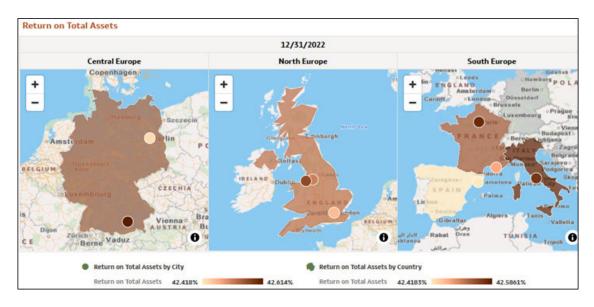
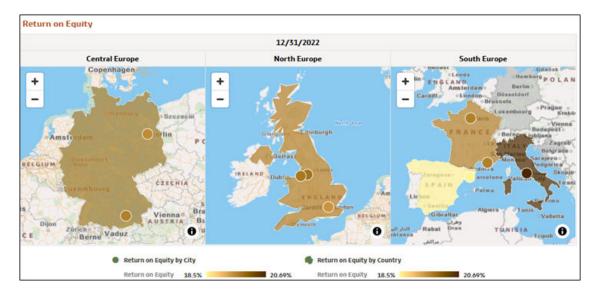


Figure 9-221 Risk-Adjusted Return on Capital

Figure 9-222 Return on Equity



9.8.5 Other Ratios

The Other Ratio's canvas within Geography Profitability provides a map based depiction of profitability measures as follows:

Figure 9-223 Net Fee Income

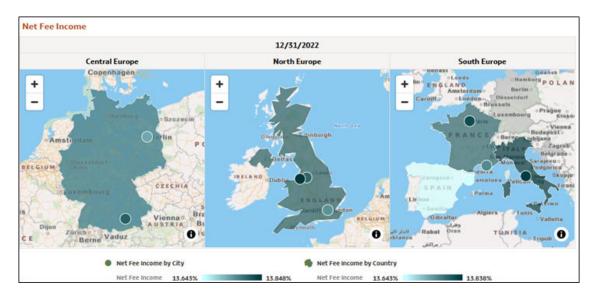
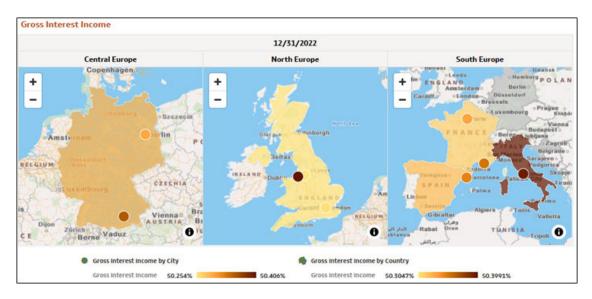


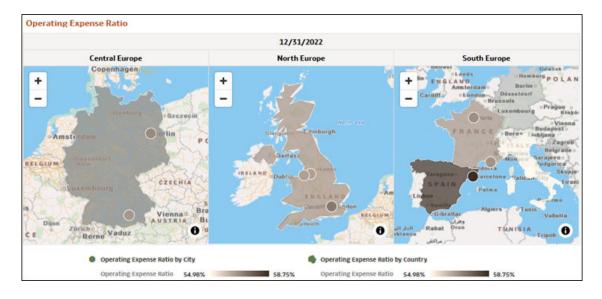
Figure 9-224 Gross Interest Income



| 12/31/2022 | Central Europe | North Europe | South Europe | Copenhagens | Copenhagen

Figure 9-225 Interest Coverage Ratio

Figure 9-226 Operating Expense Ratio



9.9 Custom Metrics

To access the Custom Metrics report, select **Analytics** from the LHS Menu, and then select **Custom Metrics**.

Custom Metrics Analysis

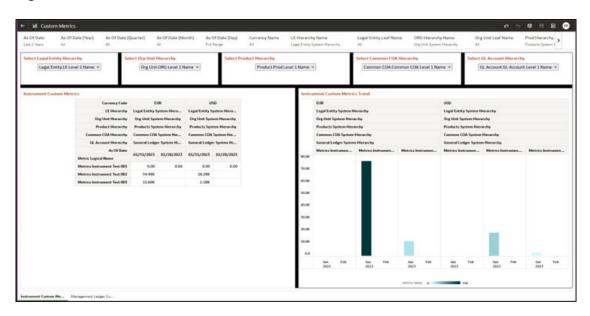
To feed the Custom Metrics to the below sub sections, refer to the *Oracle Financial Services Profitability Analytics Cloud Service Dataflow* document available at Doc ID: 2869409.1:

For the Custom Report refer to the following Data Flow sub-sections:

Instrument Custom Metrics

Management Ledger Custom Metrics

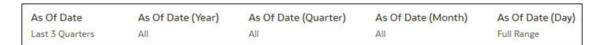
Figure 9-227 Custom Metrics Canvas



9.9.1 Report Filters

You can use a series of canvas level pinned Prompts to filter the data according to Functional Key Attributes as follows:

Figure 9-228 Canvas Prompt Filters for Time Dimension



As of Date: You can use this filter to isolate a selected time frame for the analysis. The following screen shot displays the possible options that this filter provides against the Time Dimension.

Figure 9-229 Filter Date



Additional Filters for the Time Dimension are as follows:

- As of Date
- As of Date (Year)
- As of Date (Quarter)
- As of Date (Month)
- As of Date (Day)

Figure 9-230 Key Processing Dimensions Prompt Filters



Figure 9-231 Key Processing Dimensions Prompt Filters



Legal Entity Hierarchy Name: Note that this is a mandatory filter for the group filtering on Legal Entity Key Processing Dimension.

As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same time, a mandatory driver to select "LE Hierarchy Name" must be selected with only a single value simultaneously.

- **Legal Entity Leaf Name:** You can use this filter to select the Legal Entity Leaf Name that is related to the underlying Management Ledger data.
- Org Unit Hierarchy Name: This is a mandatory filter for the group filtering on Org Unit Key
 Processing Dimension. As the Application supports the creation of multiple hierarchies for
 the same Dimension of analysis, and to avoid displaying results from multiple Dimension
 Hierarchies at the same time, a mandatory driver to select "Org Unit Hierarchy Name" must
 be selected with only a single value simultaneously.
- Org Unit Leaf Name: You can use this filter to select the Org Unit Leaf Name corresponding to the hierarchy.
- Product Hierarchy Name: Note that this is a mandatory filter for the group filtering on Product Key Processing Dimension.
 - As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same time, a mandatory driver to select "Prod Hierarchy Name" must be selected with only a single value simultaneously.
- Product Leaf Name: You can use this filter to select the Product Leaf Name corresponding to the hierarchy.
- **Currency Code**: You can use this filter to select a specific Currency Code to be applied to the underlying management ledger data.
- Scenario Name

9.9.2 In canvas Variable Prompts

Figure 9-232 In-canvas Prompt Filters - Instrument



- Select Legal Entity Hierarchy: You can use this filter to select the LE Level Name
 pertaining to the LE Hierarchy level, for rolling up the results on the underlying Legal Entity
 Leaves that are part of the selected hierarchy.
- **Select Org Unit Hierarchy**: You can use this filter to select the Org Unit Level Name pertaining to the Org Unit Hierarchy level, for rolling up the results on the underlying Org Unit Leaves that are part of the selected hierarchy.
- **Select Product Hierarchy**: You can use this filter to select the Product Level Name pertaining to the Product Hierarchy level, for rolling up the results on the underlying Product Leaves that are part of the selected hierarchy.
- Select Common COA Hierarchy:
- Select GL Account Hierarchy:
- Figure 9-233 In-canvas Prompt Filters Instrument



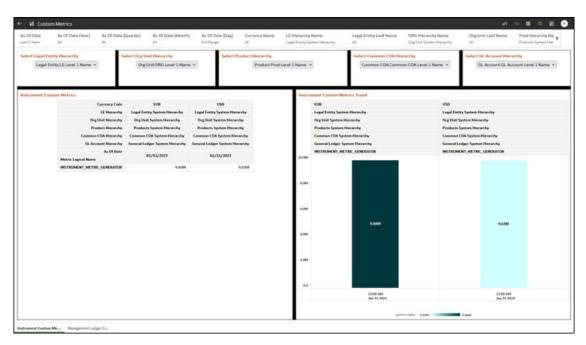
Select Time Level:



- Select Legal Entity Hierarchy: You can use this filter to select the LE Level Name
 pertaining to the LE Hierarchy level, for rolling up the results on the underlying Legal Entity
 Leaves that are part of the selected hierarchy.
- **Select Org Unit Hierarchy**: You can use this filter to select the Org Unit Level Name pertaining to the Org Unit Hierarchy level, for rolling up the results on the underlying Org Unit Leaves that are part of the selected hierarchy.
- Select Product Hierarchy: You can use this filter to select the Product Level Name
 pertaining to the Product Hierarchy level, for rolling up the results on the underlying
 Product Leaves that are part of the selected hierarchy.

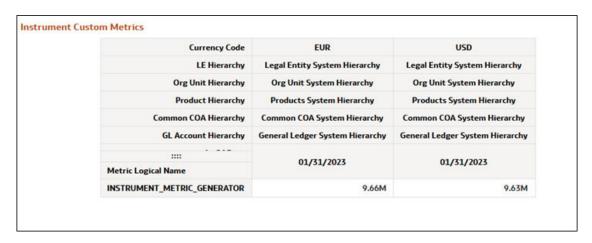
9.9.3 Instrument Custom Metrics Canvas

Figure 9-234 Canvas Instrument Custom Detail



This report shows details of the Metric Logical Name across the dimensions by currency code in the period selected.

Figure 9-235 Instrument Custom Metrics Analysis





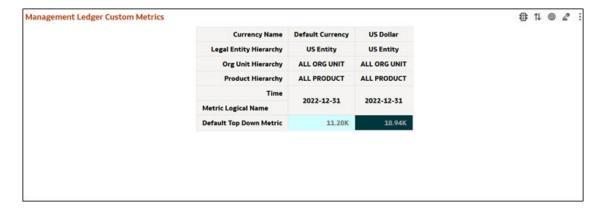
This report shows details of Instrument Custom Metrics Trend across the dimensions by currency code in the period selected.

Instrument Custom Metrics Trend USD **Legal Entity System Hierarchy Legal Entity System Hierarchy Org Unit System Hierarchy Org Unit System Hierarchy Products System Hierarchy Products System Hierarchy** Common COA System Hierarchy Common COA System Hierarchy General Ledger System Hierarchy General Ledger System Hierarchy INSTRUMENT_METRIC_GENERATOR INSTRUMENT_METRIC_GENERATOR 10.0M 8.0M 6.0M 9.66M 9.63M 4.0M 2.0M 0.0 12:00 AM 12:00 AM Jan 31 2023 Jan 31 2023 Metrics Value 9.63M

Figure 9-236 Canvas Instrument Custom Metrics Trend

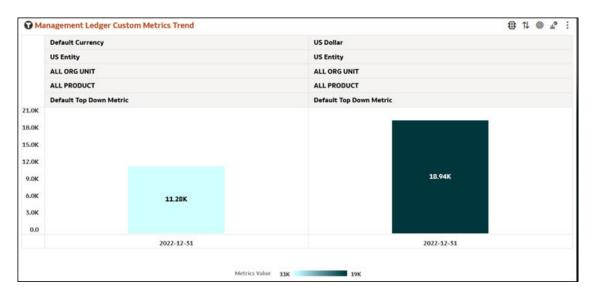
9.9.4 Management Ledger Custom Metrics Canvas

Figure 9-237 Management Ledger Custom Metrics Analysis



This report shows details of Management Custom Metrics Trend across the dimensions by currency code in the period selected.

Figure 9-238 Canvas Management Custom Metrics Trend



10

Technical Documents

This chapter covers the following topics:

- Run Chart
- Data Flow
- Customer Master Loader
- Customer Hierarchy Loader
- · Reporting Data Model

10.1 Run Chart

Run Chart allows to understand the sequence of tasks to be performed to ensure valid Data Flow in the product. It contains the details about Data Loading for all mandatory tables for the product and the sequence of execution of Seeded Tasks or Batches.

For the Profitability Analytics Cloud Service Run Chart, see the Doc ID: 2869409.1 under the Profitability Analytics Cloud Service Technical Documents header.

10.2 Data Flow

Data Flow is a visual representation of the Run Chart. It allows to understand the sequence of tasks including functional and logical processing steps at a high level.

For downloading the Profitability and Balance Sheet Management Cloud Service Data Flow, refer to the Doc ID: 2869409.1 to retrieve the Profitability and Balance Sheet Management Cloud Service Glossary of the Reporting Data Model (RPD Subject Areas).

10.3 Customer Master Loader

The Customer Master Loader allows the user to load the Customer Master Information required by the Profitability Analytics Cloud Service to enrich the demographics at the account-level. To load the Customer Master Data, you need to use the Data Loader service. First you need to upload the data, and then run a Batch to propagate the data into the processing Processing Layer.

To load the data, follow these steps:

 Navigate to Profitability Management Cloud Service. From the LHS menu, select Data Management Tools, select Data File Administration, and then select File upload and download to display the File Upload/Download screen.

The File Upload/Download screen displays the list of files that are uploaded to the Object Store. The list displays the following details for each file:

- File ID: The unique file id. This is auto generated during upload.
- Prefix: The prefix added to the file name.
- File Name: The name of the uploaded file.



- Stripe Name: The unique identifier for storing the files.
- Uploaded Date: The file upload date.
- **Download File**: Click the Download icon to download a copy of the file.
- Delete: Click Delete to delete the uploaded file.
- Click Drag and Drop to browse and select a file for upload from the local directory. You can also browse to the local directory from the File Explorer and select file and drop it here.

The File Upload/Download service supports upload of TXT, DAT, and CSV format files.

Name of the Data File must follow the format as given below:

- A prefix as input_yyyymmdd where the date format is related to the As of Date of Interest (i.e., 02-May-2023 becomes 20230502).
- A suffix as _STG_CUSTOMER_MASTER.dat.
- An example of a Data File Name could be: input_20230502_STG_CUSTOMER_MASTER.dat.



The file name is case-sensitive.

For a sample customer master loader, click input YYYYMMDD STG CUSTOMER MASTER.dat.

For more information about File Upload and Download, see File Upload and Download.

- 3. After selecting the file to upload, click **Upload**. The UI displays a confirmation message *Upload successful*.
- 4. From the LHS menu, navigate to **Operations and Processes**, select **Scheduler**, and then select **Schedule Batch**.
- Select the Batch that is a seeded batch labeled as BT-LOAD-CUSTOMER-MASTER and click Edit Parameters. In the Dynamic Parameters pop-up window, change the date to the relevant As-of-Date, and then save the batch.



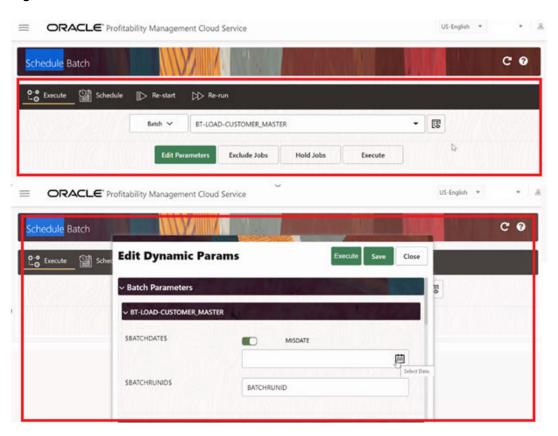


Figure 10-1 Menu Scheduler – Schedule Batch and Edit Parameters

- From the LHS menu, navigate to Operations and Processes, select Scheduler, and then select Execute Batch.
- From the LHS menu, navigate to Operations and Processes, select Scheduler, and then select Monitor Batch.
- Select the Batch and then select the MISDATE and the Batch name. There may be multiple executions of the Customer Master Loader batch. Select the latest execution and click Start Monitor.

The UI displays the Status of the batch.

For more details about Scheduler processes, see the following links:

- Schedule Batch
- Monitor Batch

10.4 Customer Hierarchy Loader

The Customer Hierarchy Loader allows the user to load the Customer Hierarchy Information required by the Profitability Analytics Cloud Service to enrich the demographics at the account-level. To load the Customer Hierarchy Data, you need to use the Data Loader service. First you need to upload the data, and then run a Batch to propagate the data into the processing Processing Layer.

To load the data, follow these steps:

 Navigate to Profitability Management Cloud Service. From the LHS menu, select Data Management Tools, select Data File Administration, and then select File upload and download to display the File Upload/Download screen. The File Upload/Download screen displays the list of files that are uploaded to the Object Store. The list displays the following details for each file:

- File ID: The unique file id. This is auto generated during upload.
- **Prefix**: The prefix added to the file name.
- File Name: The name of the uploaded file.
- Stripe Name: The unique identifier for storing the files.
- Uploaded Date: The file upload date.
- Download File: Click the Download icon to download a copy of the file.
- Delete: Click Delete to delete the uploaded file.
- Click Drag and Drop to browse and select a file for upload from the local directory. You can also browse to the local directory from the File Explorer and select file and drop it here.

The File Upload/Download service supports upload of TXT, DAT, and CSV format files.

Name of the Data File must follow the format as given below:

- A prefix as input_yyyymmdd where the date format is related to the As of Date of Interest (i.e., 02-May-2023 becomes 20230502).
- A suffix as _STG_CUSTOMER_HIERARCHY.dat.
- An example of a Data File Name could be: input_20230502_STG_CUSTOMER_HIERARCHY.dat.



The file name is case-sensitive.

For a sample Customer Hierarchy Loder file, click input YYYYMMDD STG CUSTOMER HIER.dat

For more information about File Upload and Download, see File Upload and Download.

- After selecting the file to upload, click Upload.
 The UI displays a confirmation message Upload successful.
- 4. From the LHS menu, navigate to **Operations and Processes**, select **Scheduler**, and then select **Schedule Batch**.
- Select the Batch that is a seeded batch labelled as BT-LOAD-CUSTOMER_HIER and click Edit Parameters. In the Dynamic Parameters pop-up window, change the date to the relevant As-of-Date, and then save the batch.



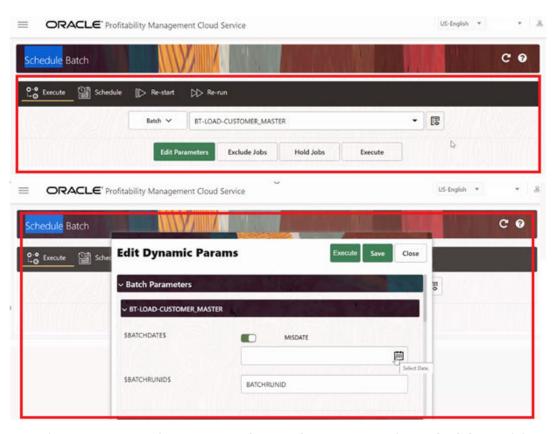


Figure 10-2 Menu Scheduler - Schedule Batch and Edit Parameters

- From the LHS menu, navigate to Operations and Processes, select Scheduler, and then select Execute Batch.
- 7. From the LHS menu, navigate to **Operations and Processes**, select **Scheduler**, and then select **Monitor Batch**.
- Select the Batch and then select the MISDATE and the Batch name. There may be
 multiple executions of the Customer Hierarchy Loader batch. Select the latest execution
 and click Start Monitor.
 - The UI displays the Status of the batch.

For more details about Scheduler processes, see the following links:

- Schedule Batch
- Monitor Batch

10.5 Reporting Data Model

Please refer to the Doc ID: 2869409.1 to retrieve the Profitability and Balance Sheet Management Cloud Service Glossary of the Reporting Data Model (RPD Subject Areas).

