Oracle® Financial Services Retail Performance Analytics

User Guide

Release 6

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ORACLE

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Contents

Preface

Intended Audience

Welcome to Release 6 of the *Oracle Financial Services Retail Performance Analytics User Guide.*

Forward

This user guide documents OFSAA Retail Performance Analytics for all versions of release 6. Some functional improvements have been introduced in various service packs and point releases within release 6.

This section documents the levels at which various functional enhancements to the Retail Performance Analytics application were first introduced.

Retail Performance Analytics release 6.0.2.0.0

- Addition of Relationship Manager Hierarchy, attribution of allocations for a relationship manager at account level, relationship manager dashboards, relationship manager PnL statements. Users can now associate accounts to relationship managers and define the percentage contribution of the relationship manager to the corresponding account. One account to multiple relationship managers and multiple accounts to a single relationship manager association is supported.

- Addition of Scenario/Forecast measures and dashboard reports. Users can now compare the better or worse for plan against actual for a year. This feature is available as a seeded dashboard.

- AMHM Module has been enabled for the users to manage metadata using UI. Currently Reporting lines as supported on this feature.

- Addition of new stage product processor for commitment contracts. The flow from staging moves to the common account summary and crm account summary.

- Bridge for loading financial data elements from Profitability (PFT) and Fixed transfer Pricing (FTP) into Customer insight if the user system has PFT and FTP applications.
- Standardization of Metadata
- Essbase Cube for relationship Manager is available as an out of box feature.
- Customer to Account relationship - which defines the association of customer to the accounts.
- Visibility control user OBIEE roles have been enabled. There are three roles which can be used to associate the user. Based on the role associated, the dashboards are available to the users. For relationship manager, additional data control also has been enabled where the relationship manager gets to see only the accounts the relationship manager is serving or his subordinates in the hierarchy are serving.
- Enabled run rule framework for the CRM account summary and Account Profitability loads.
- Enabled system for rate triangulation and rate validation for currency conversion.

See Related Information Sources on page ix for more Oracle product information.

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Structure

Business data commonly represents information as of a point in time (for example, a balance as of a point in time) or as of a particular span of time (for example, income for the month of March). Time dimension makes it possible to report the balances by Year, Quarter, or Month. For example, the monthly data for January, February, and March

gets rolled up to Quarter 1 and the Quarter 1, 2, 3, and 4 data get rolled up to, say Year 2013. The rollup of a particular balance depending on their nature could be a simple additive rollup wherein the child member balances are added up to arrive at the parent node balance (for example, Ending Balance) or non additive rollups wherein a node formula is used to specify how to rollup the child member balances (for example, three month rolling average).

5 Account Dimension Population

6 Exchange Rate History Population

7 Account Summary Population

Account Summary tables are loaded from the staging product processor tables using the Table to Table (T2T) component of Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) framework.

8 Customer Summary Population

This chapter explains the process flow for populating Fact Common Customer Summary table.

9 Fact Data Population

10 Cube Build Process

11 Overview of OFSRPA Reports

A How to Add a New Dimension

B How to Add a New Measure

C How to Develop a New Cube

D List of Members

E How to Define a Batch

Related Information Sources

Oracle Financial Services Channel Analytics (OFSCA) User Guide

Oracle Financial Services Institutional Performance Analytics (OFSIPA) User Guide

Oracle Financial Services Retail Customer Analytics (OFSRCA) User Guide

1

Introduction

Overview of Oracle Financial Services Retail Performance Analytics (OFSRPA)

Oracle Financial Services Retail Performance Analytics (OFSRPA) is a complete end-to-end web-based Business Intelligence solution which provides a 360 degree view of the customer relationship for key insights into the customer life-cycle.

OFSRPA provides tools for data integration and includes customizable, pre-built dashboards and reports, a reporting data model, and user friendly functional subject areas for ad-hoc reporting.

It also provide you deep insights into customer engagements across target segments and products/Line Of Business (LOB) including lending, credit cards, and so on.

It proactively manage the growth through strategic insights into the retail business performance.

OFSRPA helps you to monitor customer distribution across credit and delinquency bands and related exposures.

The OFSRPA solution is built using:

- OFSAA Infrastructure 7.3 for ETL and Data Integration
- OBIEE 11.1.1.6.1 for Dashboard & Reports activities
- Essbase 11.1.2.2 for multi-dimensional cube storage

This manual deals with essential Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) required for OFSRPA activities, process flow for the data transformation, cube building processes, and functional details about the dash boards and reports. In addition, it includes subject areas which could be used for ad-hoc reporting using OBIEE Answers tool.

2

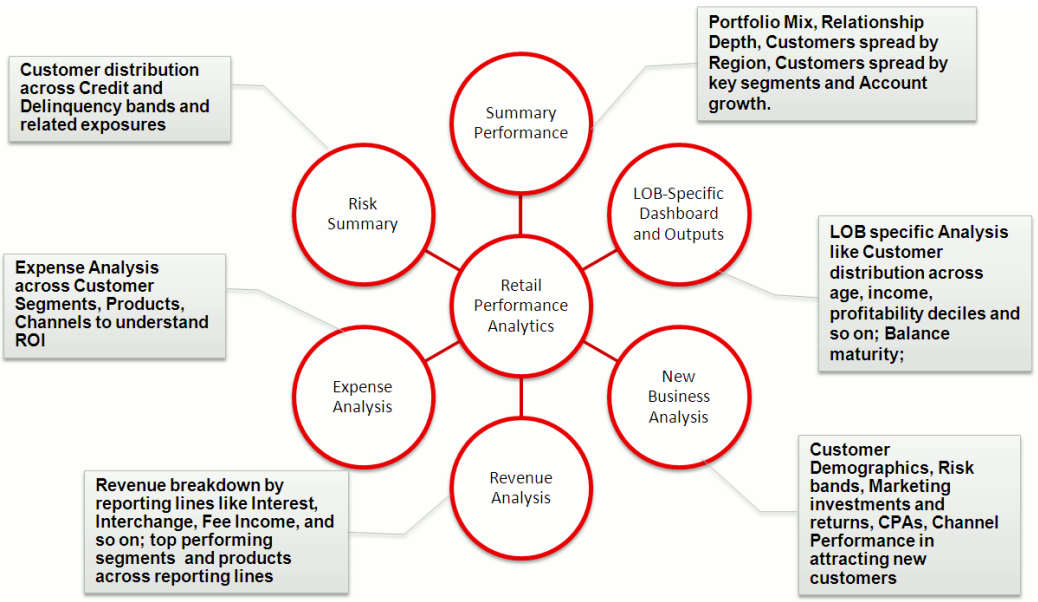
Overview of Process Flow

Introduction

Oracle Financial Services Retail Performance Analytics (OFSRPA) 6.0 utilizes OBIEE technology to:

- Gain deep insight into customer engagements across target segments and products/LOB including lending, credit cards, and so on.
- Perform Wallet share analysis and Customer Profitability.
- Understand the efficiency of investments (like marketing, branch, and channel and so on) over time.
- Monitor customer distribution across credit and delinquency bands and related exposures.
- Perform an enterprise-wide revenue analysis across customer segments, products, and reporting lines including fee income, interest, and interchange.
- Summary performance of the LOBs, overall Profitability, and Portfolio mix.
- Customer trends across performance drivers like Sales, Balances, Deposits, Product subscriptions (revenue services), Credit scores, Delinquency bands, Losses, and so on.
- LOB specific performance reports can be analyzed against key dimensions like customer segments, product family, region, branch, risk scores, and so on.
- Analyze expenses across customer segments, products, and channels to understand ROI.

Following explains the product objectives of OFSRPA 6.0:



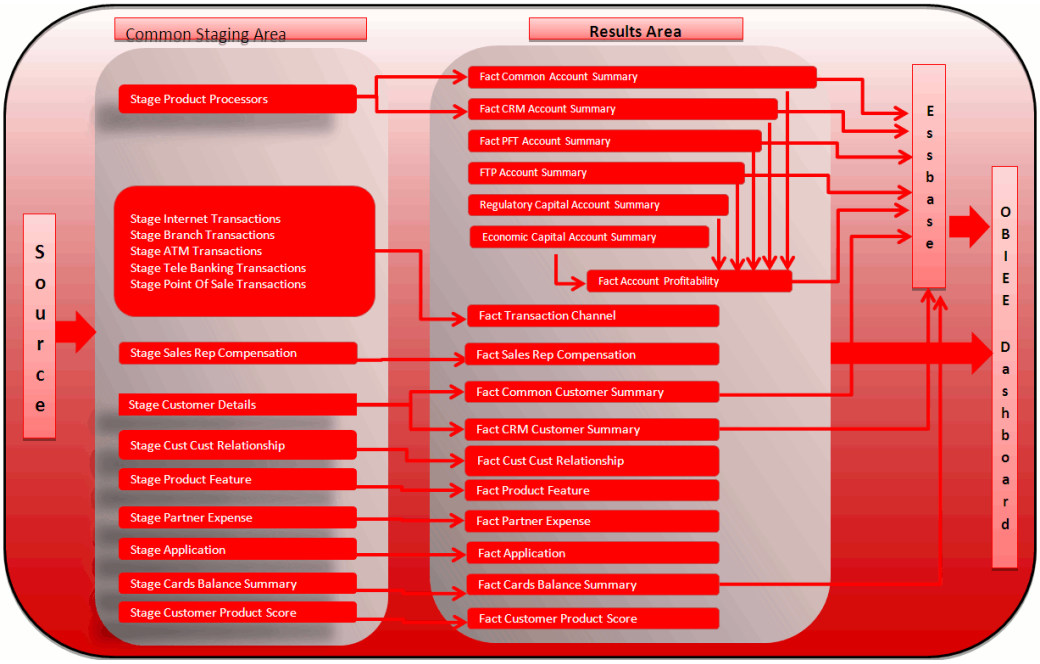
For details on OFSRPA reports and how OBIEE is being utilized, see Overview of OFSRPA reports, page 11-1.

OFSRPA 6.0 is designed for OBIEE reading data from relational database. The relational database comprises of various dimensions and facts in the BI data model. OFSRPA is also designed for OBIEE reading data from Essbase cubes, which stores aggregated data. The Essbase cubes are built from the fact data of the BI data model.

OFSRPA 6.0 can be independently licensed and installed to work on top of the OFSAAI 7.3 Infrastructure.

Data Flow

Retail Performance Analytics data model contains the staging tables from which data is loaded in to the dimensions and fact tables. Staging tables include the master staging tables, detail staging tables, staging product processor tables, and so on. The user has to populate data into these staging tables.



Dimension Data Flow

Dimension data in OFSRPA application is loaded from staging master tables using the Slowly Changing Dimensions (SCD) process. Data from source systems can be loaded into staging through flat file or source system interfaces.

SCD process tracks the changes in the dimensional attributes and loads data into dimension tables. Few examples of dimension tables that follow the SCD process are Product, Customer Type, Customer, Campaign, and so on.

Some dimensions are static or maintained internally within the application and are not expected as a download from source system. For example, Reporting Line. These dimensions are maintained through the AMHM (Attribute Member Hierarchy Maintenance) component of OFSAAI or through other framework components like DEFI.

Following are the list of Dimensions used in OFSRPA:

Dimension Entity Name	Staging Entity Name(s)	Loading/Maintenance Method
Account Status Dimension	Stage Account Status Master	SCD
Application Reject Reasons Dimension	Stage Application Reject Reason Master	SCD

Dimension Entity Name	Staging Entity Name(s)	Loading/Maintenance Method
Application Status Dimension	Stage Application Status Master	SCD
Application Type Dimension	Stage Application Type Master	SCD
Attrition Dimension	Stage Attrition Reason Master	SCD
Authorization Decision Reasons Dimension	Stage Auth Decision Reason Master	SCD
Balance Category Dimension	Stage Credit Card Balance Category Master	SCD
Card Type Dimension	Stage Card Type Master	SCD
Channel Transaction Dimension	Stage Transaction Channel Type Master	SCD
Country Dimension	Stage Country Master	SCD
Credit Center Dimension	Stage Credit Center Master	SCD
Credit Officer Dimension	Stage Credit Officer Master	SCD
Customer Dimension	Stage Customer Master	SCD
Customer Type Dimension	Stage Customer Type Master	SCD
Decision Status Dimension	Stage Decision Status Master	SCD
Deviation Reasons Dimension	Stage Deviation Reason Master	SCD
Education Dimension	Stage Customer Education Master	SCD
Geography Dimension	Stage Geography Master	SCD

Dimension Entity Name	Staging Entity Name(s)	Loading/Maintenance Method
Home Ownership Dimension	Stage Home Ownership Master	SCD
Household Dimension	Stage Household Master	SCD
Industry Dimension	Stage Industry Master	SCD
LoB Dimension	Stage LOB Master	SCD
Management Dimension	Stage Account Mgmt Master	SCD
Merchant Dimension	Stage Merchant Master	SCD
Merchant Category Dimension	Stage Merchant Category Master	SCD
Migration Reasons Dimension	Stage Migration Reason Master	SCD
Offer Dimension	Stage Offer Master	SCD
Reason Dimension	Stage Opportunity Win Loss Reason Master	SCD
Organization Structure Dimension	Stage Organization Structure Dimension	SCD
Partner Dimension	Stage Partner Master	SCD
Pool Identification Dimension	Stage Pool Identification Master	SCD
Prepayment Reason Dimension	Stage Prepayment Reason Master	SCD
Product Dimension	Stage Product Master	SCD
Loan Product Category Dimension	Stage Product Category Master	SCD

Dimension Entity Name	Staging Entity Name(s)	Loading/Maintenance Method
Product Feature Dimension	Stage Product Feature Master	SCD
Product Type Dimension	Stage Product Type Master	SCD
Prospect Dimension	Stage Prospect Master	SCD
Retention Offer Type Dimension	Stage Retention Offer Master	SCD
Sales Representative Dimension	Stage Sales Rep Master	SCD
Sales Stage Dimension	Stage Sales Stage Master	SCD
Terminal Dimension	Stage Terminal Master	SCD
Terminal Type Dimension	Stage Terminal Type Master	SCD
Transaction Dimension	Stage Transaction Master	SCD
Transaction Channel Dimension	Stage TXN Channel Master	SCD
Txn Failure Reason Dimension	Stage Transactions Failure Reason Master	SCD
Transaction Status Dimension	Stage Transactions Status Master	SCD
Vendor Dimension	Stage Vendor Master	SCD
Vintage Dimension	Stage Vintage Master	SCD
Reporting Line Dimension	Reporting Line Dimension Members, Reporting Line Member Translation, Reporting Line Member Attributes, Reporting Line Hierarchies	AMHM/DT
Band Dimension	Band Dimension Members,	AMHM/SCD

Dimension Entity Name	Staging Entity Name(s)	Loading/Maintenance Method
	Band Member Translation,	
	Band Member Attributes	
Region Dimension		Direct Load
Acquisition Channel Dimension		Direct Load
Instrument Category Dimension		Seeded
Currency Dimension		Seeded
Gender Dimension		Seeded
Marital Status Dimension		Seeded
Calendar Dimension		DT
Account Dimension	Staging Product Processor Tables like	DT
	Stage Annuity Contracts,	
	Stage Bill Contracts,	
	Stage Borrowings,	
	Stage Cards,	
	Stage CASA Accounts,	
	Stage Guarantees,	
	Stage Investments,	
	Stage LC Contracts,	
	Stage Leases Contracts,	

Dimension Entity Name	Staging Entity Name(s)	Loading/Maintenance Method
	Stage Loan Contracts,	
	Stage Money Market Contracts,	
	Stage Over Draft Accounts,	
	Stage Term Deposit Contracts,	
	Stage Trusts,	
	Stage Swaps Contracts,	
	Stage Repo Contracts,	
	Stage Option Contracts,	
	Stage Mutual Funds,	
	Stage Futures And Forwards	

Some of the stage data can also come from master data management interfaces.

In such a case, data from interface is loaded into staging interface tables and SCD is run on the interface tables. Mapping of dimensional attributes to staging can be obtained by querying SYS_STG_JOIN_MASTER and SYS_TBL_MASTER table in the atomic schema.

Fact Data Flow

Most of the Fact tables are mapped to staging counterparts through Table to Table (T2T) mappings. Data from source systems can be loaded into staging through flat file or source system interfaces. T2T process then loads data to fact tables. Few examples are Fact Common Account Summary, Fact Campaign, and so on.

Some of the Fact tables are loaded with processed fact information from other fact tables. Few examples are Fact CRM Customer Summary, Fact Account Profitability, and so on.

Fact Entity Name	Source	Source Entities	Method of populating measures
Fact Common Account Summary	Stage	Stage Annuity Contracts, Stage Bill Contracts, Stage Borrowings, Stage Cards, Stage CASA Accounts, Stage Guarantees, Stage Investments, Stage LC Contracts, Stage Leases Contracts, Stage Loan Contracts, Stage Money Market Contracts, Stage Over Draft Accounts, Stage Term Deposit Contracts, Stage Trusts	T2T
Fact CRM Account Summary	Stage	Stage Annuity Contracts, Stage Bill Contracts, Stage Borrowings,	T2T

Fact Entity Name	Source	Source Entities	Method of populating measures
		Stage Cards,	
		Stage CASA Accounts,	
		Stage Guarantees,	
		Stage Investments,	
		Stage LC Contracts,	
		Stage Leases Contracts,	
		Stage Loan Contracts,	
		Stage Money Market Contracts,	
		Stage Over Draft Accounts,	
		Stage Term Deposit Contracts,	
		Stage Trusts	
Fact Common Customer Summary	Stage	Stage Customer Details,	T2T
		Stage Party Rating Details,	
		Stage Party Financials	
Fact CRM Customer Summary	Stage and Fact	Stage Customer Master,	T2T
		Stage Customer Details,	

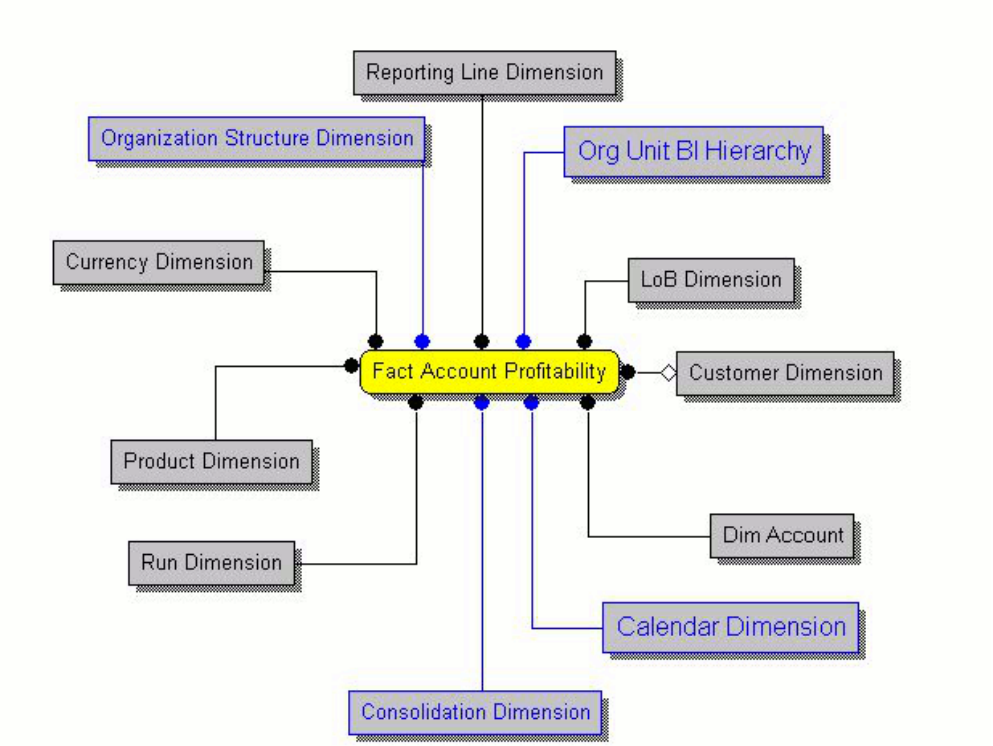
Fact Entity Name	Source	Source Entities	Method of populating measures
		Fact Common Account Summary	
		Fact Transaction Channel	
Fact Application	Stage	Stage Applications	T2T
Transaction Channel	Stage	Stage Internet Transactions	T2T
		Stage Branch Transactions	
		Stage ATM Transactions	
		Stage TeleBanking Transactions	
		Stage Point Of Sale Transactions	
Fact Cards Balance Summary	Stage	Stage Credit Card Balance Summary	T2T
Fact Customer Product Score	Stage	Stage Customer Product Score	T2T
Fact Account Feature Map	Stage	Stage Account Feature Map	T2T
Fact Customer to Customer Relationship	Stage	Stage Customer to Customer Relationships	T2T
Fact Account Profitability	Fact	Fact Common Account Summary,	DT
		Fact FTP Account Summary,	

Fact Entity Name	Source	Source Entities	Method of populating measures
		Fact PFT Account Summary,	
		Fact Regulatory Capital Account Summary,	
		Fact Economic Capital Account Summary	
Exchange Rate History	Stage	Stage Exchange Rates	T2T

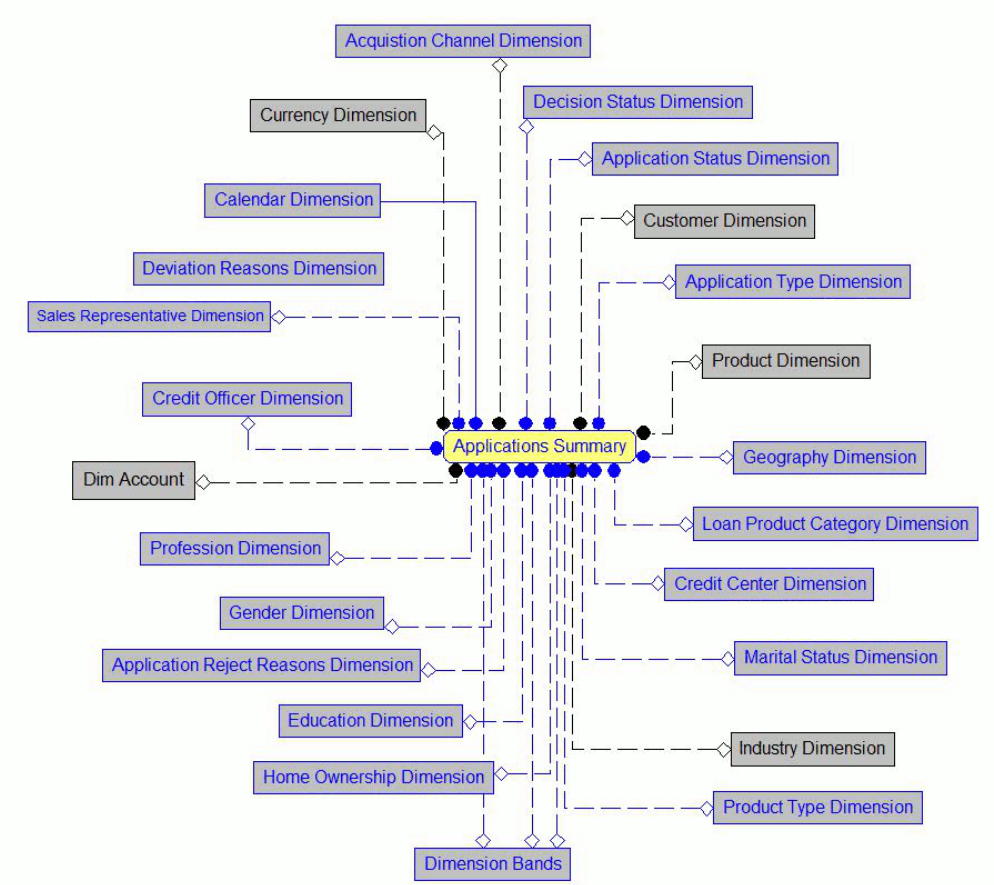
BI Data Model

Following are the subject areas in ERwin data model:

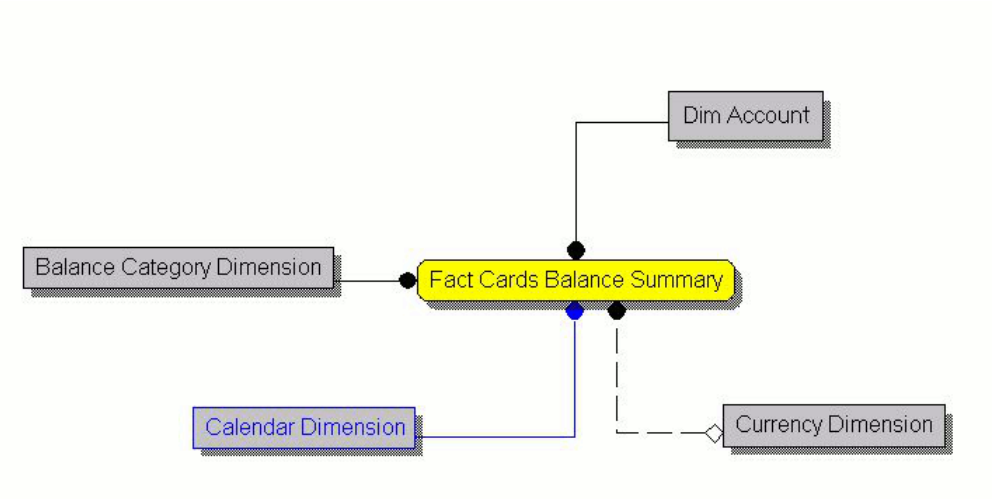
- Account Profitability



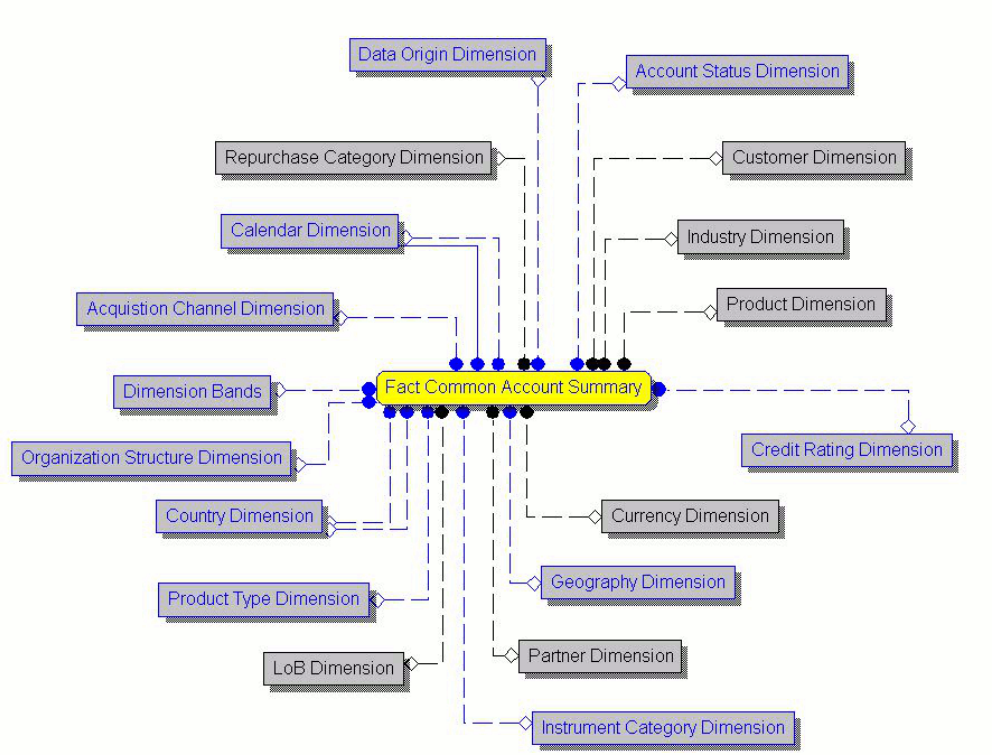
- Application



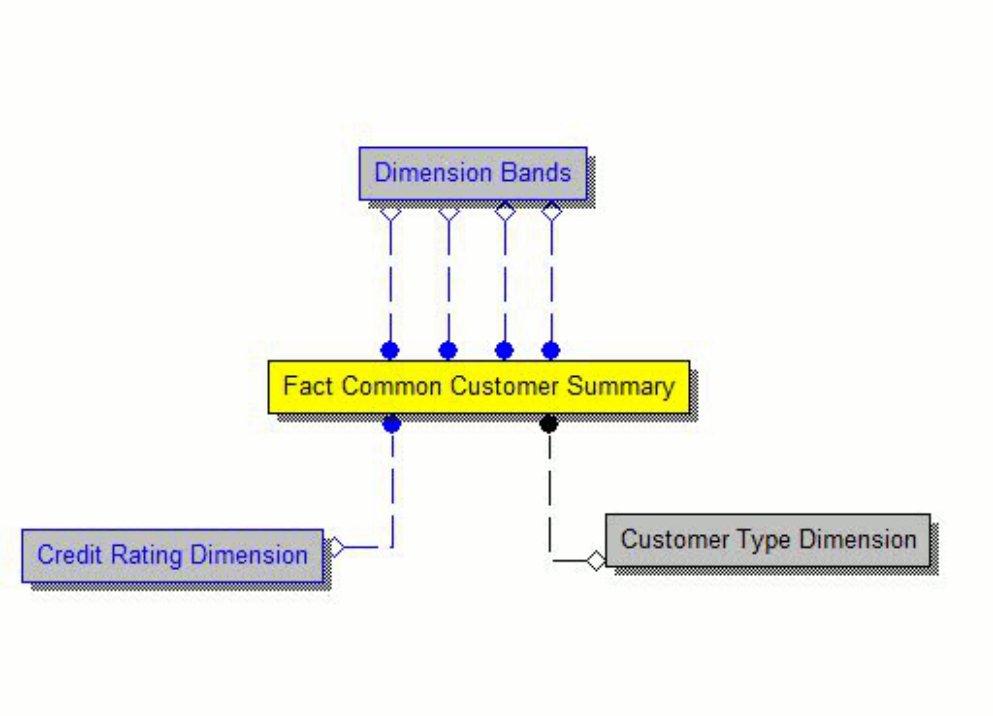
- Cards Balance Summary



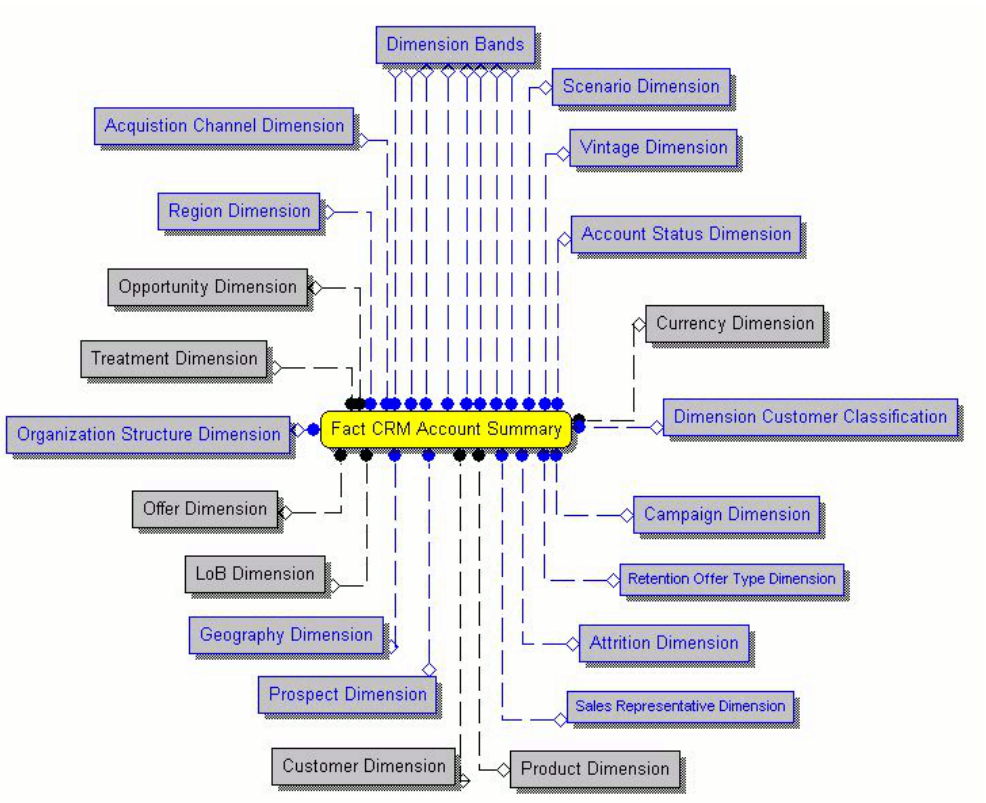
- Common Account Summary



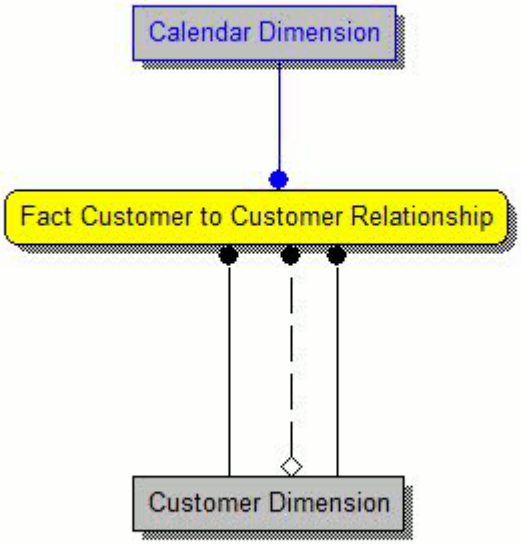
- Common Customer Summary



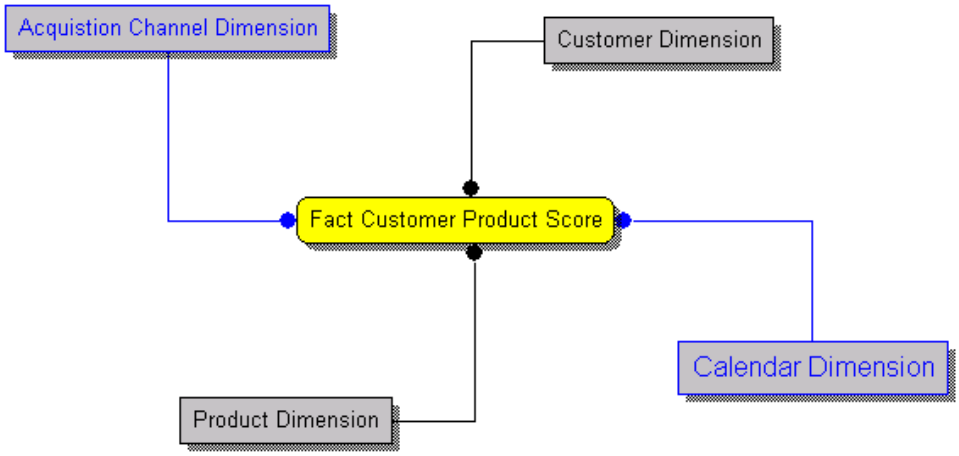
- CRM Account Summary



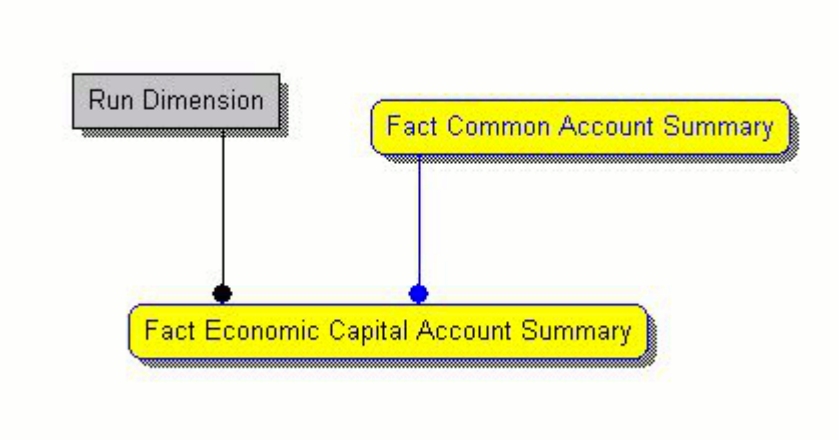
- Customer to Customer Relationship



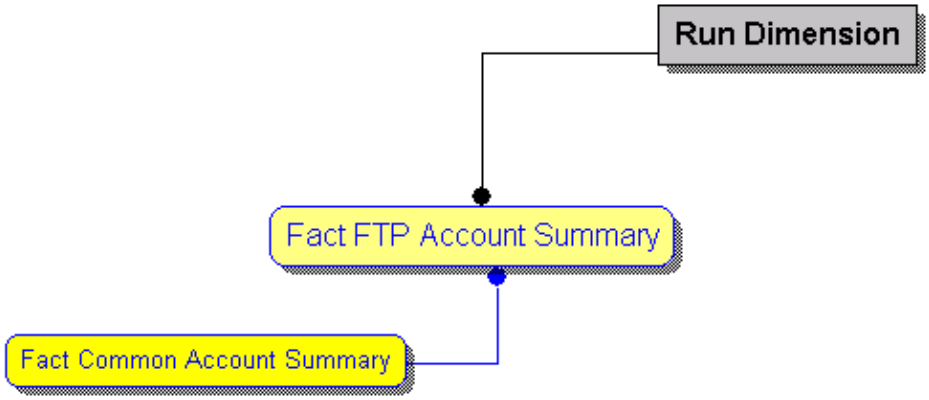
- Customer to Product Score



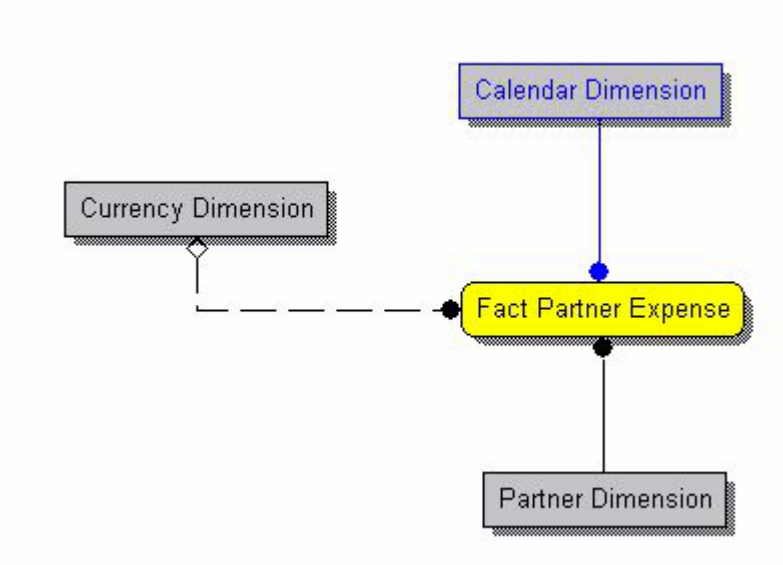
- Eco Capital Account Summary



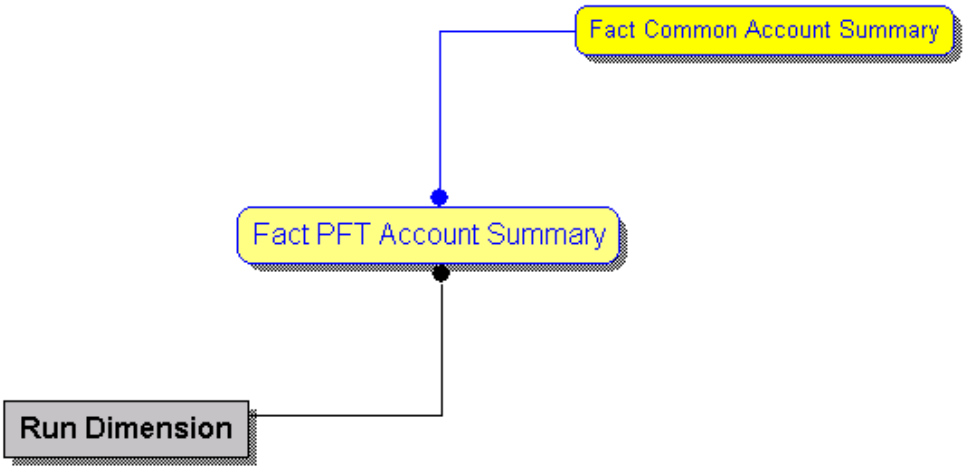
- FTP Account Summary



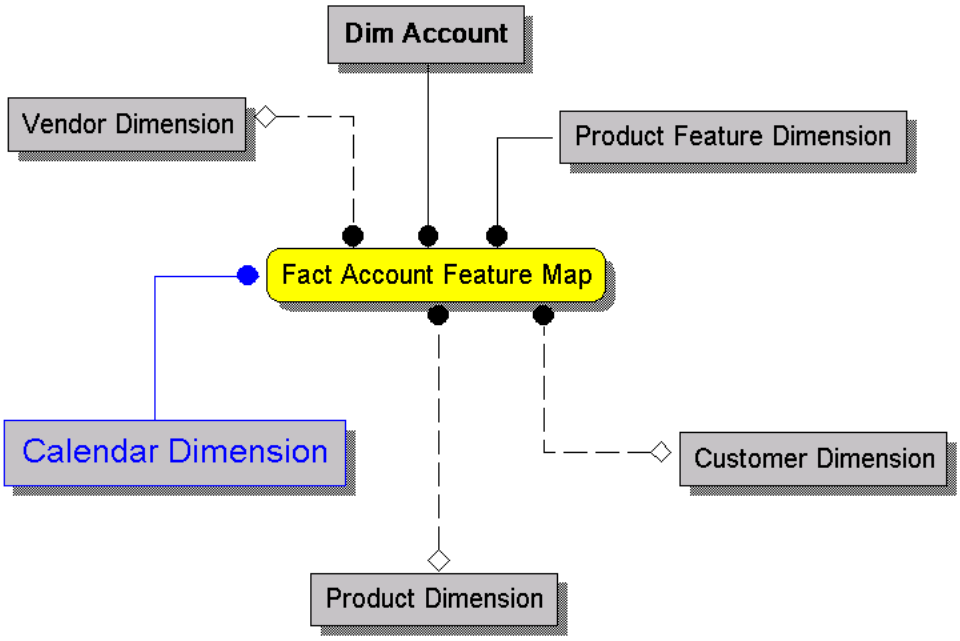
- Partner Expense Summary



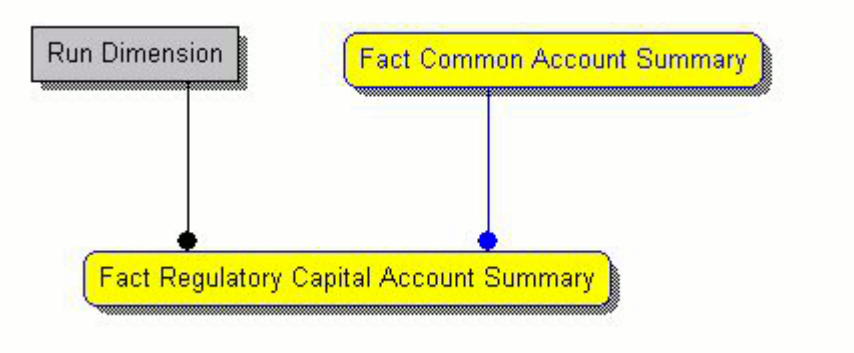
- PFT Account Summary



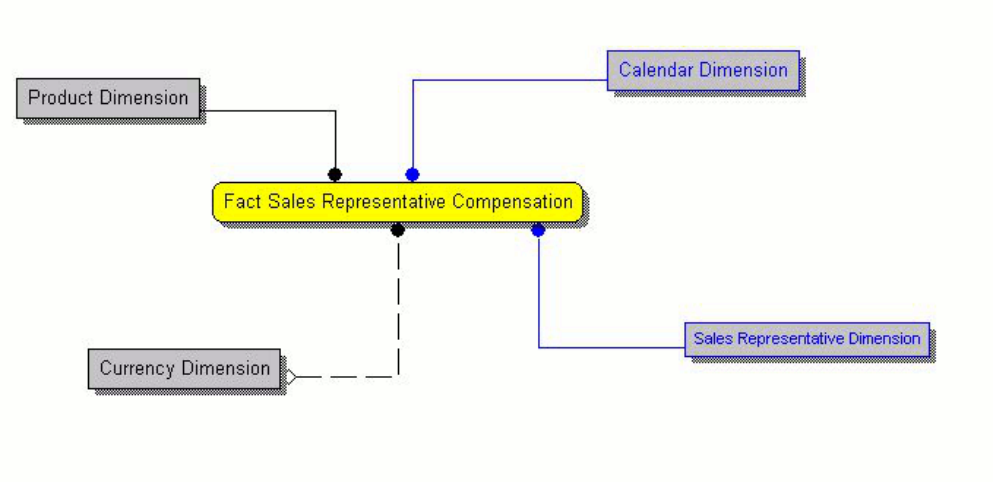
- Product Feature



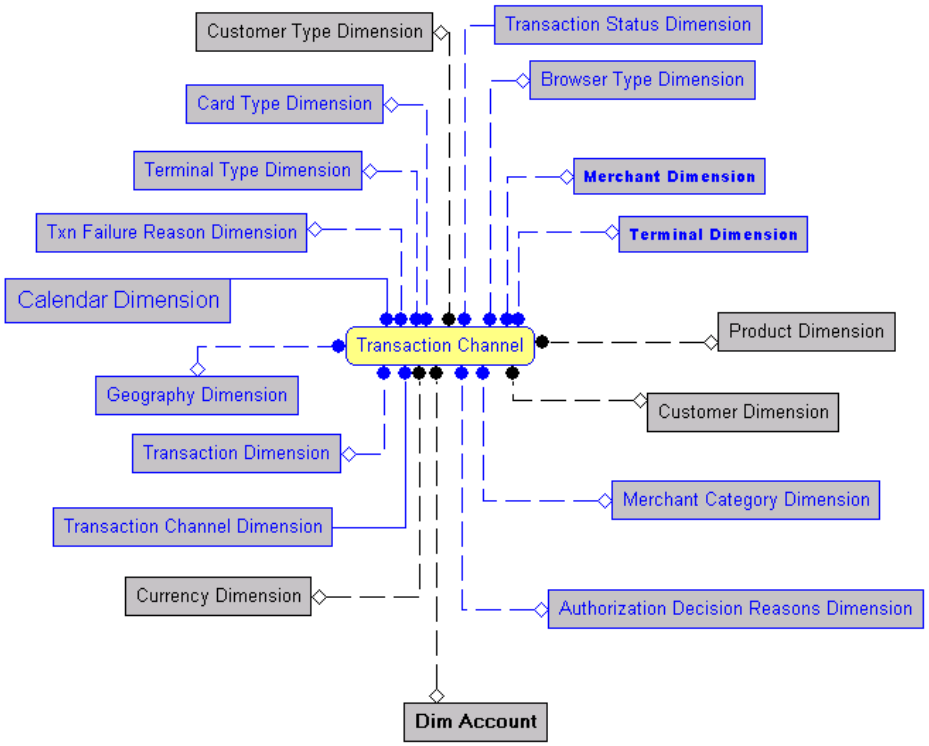
- Reg Cap Account Summary



- Sales Compensation



- Transaction Channel



Data Flow: OFSRPA BI Data Model to Essbase Cubes

Reports of OFSRPA application can be configured to work on Relational database or Hyperion Essbase Multi-dimensional databases, that is cubes. Multi-dimensional databases store aggregated data for better performance and provide mechanisms for performing non-additive rollup within a hierarchy and defining complex derived measures using cross-dimensional operations. OFSAA Infrastructure is used for defining metadata about the cube and for building the Essbase cubes. Essbase cubes can be built out of reporting fact entities to improve performance.

OFSRPA application has the following seeded cube metadata:

Cube Code	Cube Name	Fact Entities in dataset
ADCRM002	Retail Analysis	Fact Common Account Summary
		Fact CRM Account Summary
		Fact Common Customer Summary

Cube Code	Cube Name	Fact Entities in dataset
		Fact CRM Customer Summary
		Fact FTP Account Summary
		Fact PFT Account Summary
ADCRM009	Cards Balance Summary	Fact Common Account Summary
		Fact CRM Account Summary
		Fact Common Customer Summary
		Fact CRM Customer Summary
		Fact Cards Balance Summary
ADCRM010	Account Profitability	Fact Common Account Summary
		Fact CRM Account Summary
		Fact Common Customer Summary
		Fact CRM Customer Summary
		Fact Account Profitability
ADCRM011	Customer Summary	Fact Common Customer Summary
		Fact CRM Customer Summary
ADRPARM1	RM PnL Cube for RPA	FCT_ACCOUNT_PROFITAIBILTY
		FCT_ACCOUNT_MGR_REL

3

Dimension Loading Process

Dimension Tables Population

OFSRPA solution use the SCD component to handle dimensional data changes.

Overview of SCD Process

SCDs are dimensions that have data that changes slowly, rather than changing on a time-based, regular schedule.

For more information on SCDs, see

- *Oracle Data Integrator Best Practices for a Data Warehouse* at

  http://www.oracle.com/technetwork/middleware/data-integrator/overview/odi-best practices-datawarehouse-whi-129686.pdf

- *Oracle Warehouse Builder Data Modeling, ETL, and Data Quality Guide* at

  http://docs.oracle.com/cd/E14072_01/owb.112/e10935.pdf

Additional online sources include:

- http://en.wikipedia.org/wiki/Slowly_changing_dimension
- http://www.oracle.com/webfolder/technetwork/tutorials/obe/db/10g/r2/owb/owb10 gr2_gs/owb/lesson3/slowlychangingdimensions.htm
- http://www.oraclebidwh.com/2008/11/slowly-changing-dimension-scd/
- http://www.informationweek.com/news/software/bi/showArticle.jhtml?articleID=2 04800027&pgno=1
- http://www.informationweek.com/news/software/bi/showArticle.jhtml?articleID=5 9301280

Another published resource that covers SCD in detail is *"The Data Warehouse Toolkit: The Complete Guide to Dimensional Modeling"* by Ralph Kimball and Margy Ross.

The SCD component of the platform is delivered via a C++ executable. The types of SCD handled by the OFSAAI SCD component for OFSRPA solution are Type 1 and Type 2.

Prerequisites

1. The SCD executable should be present under *<Installation Home>ficdb/bin*. The file name is **scd.**
2. The user executing the SCD component should have execute rights on this file.
3. The setup tables accessed by SCD component are SYS_TBL_MASTER and SYS_STG_JOIN_MASTER.

   SYS_TBL_MASTER stores the information regarding the source stage table and the target dimension tables. The source sometimes can be the database views which could be simple or a complex view.

   SYS_STG_JOIN_MASTER stores the information regarding the source column, which is mapped to the respective target dimension table column. It makes use of data base sequence to populate into surrogate key columns of dimension tables.

Tables Used by the SCD Component

The database tables used by the SCD component are:

- **SYS_TBL_MASTER**

  The solution installer populates one row per dimension for the seeded dimensions in this table.

Column Name	Data Type	Column Description
MAP_REF_NUM	NUMBER(3) NOT NULL	The Mapping Reference Number for this unique mapping of a Source to a Dimension Table.
TBL_NM	VARCHAR2(30) NOT NULL	Dimension Table Name
STG_TBL_NM	VARCHAR2(30) NOT NULL	Staging Table Name

Column Name	Data Type	Column Description
SRC_PRTY	NUMBER(2) NULL	Priority of the Source when multiple sources are mapped to the same target.
SRC_PROC_SEQ	NUMBER(2) NOT NULL	The sequence in which the various sources for the DIMENSION will be taken up for processing.
SRC_TYP	VARCHAR2(30) NULL	The type of the Source for a Dimension, that is, Transaction Or Master Source.
DT_OFFSET	NUMBER(2) NULL	The offset for calculating the Start Date based on the Functional Requirements Document (FRD).
SRC_KEY	NUMBER(3) NULL	

Sample Data: The following is the data put in by the solution installer for the Line of Business dimension.

MAP_REF_NUM	6
TBL_NM	DIM_LOB
STG_TBL_NM	STG_LOB_MASTER
SRC_PRTY	
SRC_PROC_SEQ	23
SRC_TYP	MASTER
DT_OFFSET	0

SRC_KEY

Note: *For any new dimension added, a new row has to be inserted manually to this table.*

- **SYS_STG_JOIN_MASTER**

  The solution installer populates this table for the seeded dimensions.

Column Name	Data Type	Column Description
MAP_REF_NUM	NUMBER(3) NOT NULL	The Mapping Reference Number for this unique mapping of a Source to a Dimension Table.
COL_NM	VARCHAR2(30) NOT NULL	Name of the column in the Dimension Table.
COL_TYP	VARCHAR2(30) NOT NULL	Type of column. The possible values are given in the following section.
STG_COL_NM	VARCHAR2(60) NULL	Name of the column in the Staging Table.
SCD_TYP_ID	NUMBER(3) NULL	SCD type for the column.
PRTY_LOOKUP_REQD_FLG	CHAR(1) NULL	Column to determine whether Lookup is required for Priority of Source against the Source Key Column or not.
COL_DATATYPE	VARCHAR2(15) NULL	The list of possible values are VARCHAR, DATE, NUMBER based on the underlying column datatype.

Column Name	Data Type	Column Description
COL_FORMAT	VARCHAR2(15) NULL	

The possible values for column type (COL_TYPE column) in SYS_STG_JOIN_MASTER table are:

1. PK - Primary Dimension Value (may be multiple for a given "Mapping Reference Number")
2. SK - Surrogate Key
3. DA - Dimensional Attribute (may be multiple for a given "Mapping Reference Number")
4. SD - Start Date
5. ED - End Date
6. LRI - Latest Record Indicator (Current Flag)
7. CSK - Current Surrogate Key
8. PSK - Previous Surrogate Key
9. SS - Source Key
10. LUD - Last Updated Date / Time
11. LUB - Last Updated By

Sample Data: The following is the data put in by the solution installer for the Line of Business dimension.

MAP_REF_NUM	6
COL_NM	V_LOB_CODE
COL_TYP	PK
STG_COL_NM	V_LOB_CODE

SCD_TYP_ID	
PRTY_LOOKUP_REQD_FLG	N
COL_DATATYPE	VARCHAR
COL_FORMAT	61

Note: *For any new dimension added, the column details have to be inserted manually to this table.*

- DIM_<dimensionname>_V - The database view which SCD uses as the source.

  Example
  Dim_Bands_V

  These views come as part of install for the dimensions seeded with the application.

  Note: *For any new dimension added, a view has to be created similar to DIM_BANDS_V.*

- DIM_<dimensionname> – Output table to which SCD writes the dimension data.

A sequence should be added for every user-defined dimension.

Example

```
create sequence SEQ_DIM_<DIM>  minvalue 1
maxvalue 999999999999999999999999999
increment by 1
```

Executing the SCD Component

You can execute the function from the *Operations* (formerly Information Command Center (ICC) framework) module of OFSAAI, as mentioned below:

Define a new Batch and an underlying Task definition from the Batch Maintenance window of OFSAAI. For more information on defining a new Batch, refer to the section How to Define a Batch, page E-1.

Note: A seeded batch <Infodom>_SCD_Retail_Perf_Analy_Dim is provided which has all the required dimensions as different tasks that are part of SCD.

To define a new task for a Batch definition:

1. Select the check box adjacent to the newly created Batch Name in the *Batch Maintenance* window.
2. Click Add (+) button from the *Task Details* grid.

   The Task Definition window is displayed.
3. Enter the **Task ID** and **Description**.
4. Select **Run Executable** component from the drop down list.
5. Select the following from the **Dynamic Parameters** list:
   - **Datastore Type** - Select the appropriate datastore type from the drop down list
   - **Datastore Name** - Select the appropriate datastore name from the drop down list
   - **IP address** - Select the IP address from the list
   - **Executable** - Enter scd,<map ref num>

     For example:

     scd, 61

     scd, -1(If you want to process all the dimensions)

     If you want to process for a single dimension, query the database table SYS_TBL_MASTER and give the number in the MAP_REF_NUM column for the dimension you want to process. These are the ones which come seeded with the install.
   - **Wait** - Click Yes if you want to wait till the execution is complete or click No to proceed with the next task.
   - **Batch Parameter** - Click **Yes** in Batch Parameter field if you want to pass the batch parameters to the executable and click **No** otherwise.

     Important: Always select **Y** in Batch Parameter.
6. Click **Save**.

   The Task definition is saved for the selected Batch.

You can execute a Batch definition from the *Batch Execution* section of *OFSAAI Operations* module.

Checking the Execution Status

The Batch execution status can be monitored through Batch Monitor section of OFSAAI Operations module.

The status messages in Batch Monitor are:

N - Not Started

O - On Going

F - Failure

S – Success

The execution log can also be accessed on the application server in the directory *$FIC_DB_HOME/log/ficgen*, where file name will have the Batch Execution ID.

The file name will have the batch execution id.

The detailed SCD component log can be accessed on the application server in the directory $FIC_HOME by accessing the path */ftpshare/<infodom name>/logs*, where file name will have the Batch Execution ID.

Check the **.profile** file in the installation home if you are not able to find these paths.

4

Time Dimension Population

Business data commonly represents information as of a point in time (for example, a balance as of a point in time) or as of a particular span of time (for example, income for the month of March). Time dimension makes it possible to report the balances by Year, Quarter, or Month. For example, the monthly data for January, February, and March gets rolled up to Quarter 1 and the Quarter 1, 2, 3, and 4 data get rolled up to, say Year 2013. The rollup of a particular balance depending on their nature could be a simple additive rollup wherein the child member balances are added up to arrive at the parent node balance (for example, Ending Balance) or non additive rollups wherein a node formula is used to specify how to rollup the child member balances (for example, three month rolling average).

This chapter covers the following topics:

- Overview of Time Dimension Population
- Prerequisites
- Tables Used by the Time Dimension Population Transformation
- Executing the Time Dimension Population Transformation
- Checking the Execution Status

Overview of Time Dimension Population

Time dimension population transformation is used to populate the DIM_DATES table with values between two dates specified by the user as a batch parameter.

The database components, used by the transformations are:

1. Database function FN_DIM_DATES
2. Database procedure PROC_DIM_DATES_POPULATION, which is called by the function FN_DIM_DATES.

Prerequisites

1. All the post install steps mentioned in the *Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) Installation and Configuration guide* and the solution installation manual have to be completed successfully.

2. Application User must be mapped to a role that has seeded Batch Execution function (BATPRO).

3. Before executing a batch check if the following services are running on the application server:

    1. Iccserver

    2. Router

    3. AM Server

    4. Messageserver

    For more information on how to check if the services are up and on and how to start the services if you find them not running, refer to *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

4. Batches will have to be created for executing the function. For more details, refer to the section Executing the Time Dimension Population Transformation, page 4-2.

Tables Used by the Time Dimension Population Transformation

- DIM_DATES - This table stores the date details to be used for building cubes and for reporting.

For more details on viewing the structure of tables, refer to *Oracle Financial Services Analytical Applications Data Model Data Dictionary* or the *Erwin Data Model*.

Executing the Time Dimension Population Transformation

You can execute the function from the *Operations* (formerly Information Command Center (ICC) framework) module of OFSAAI, as mentioned below:

Define a new Batch and an underlying Task definition from the Batch Maintenance window of OFSAAI. For more information on defining a new Batch, refer to the section How to Define a Batch, page E-1.

Note: A seeded batch <INFODOM>_aCRM_CommonTasks - Task2 is

provided so that the user can just modify the parameters and execute the batch.

To define a new task for a Batch definition:

1. Select the check box adjacent to the newly created Batch Name in the *Batch Maintenance* window.
2. Click Add (+) button from the *Task Details* grid.

   The Task Definition window is displayed.
3. Enter the **Task ID** and **Description**.
4. Select **Transform Data** component from the drop down list.
5. Select the following from the **Dynamic Parameters** list:
   - **Datastore Type** - Select the appropriate datastore type from the drop down list
   - **Datastore Name** - Select the appropriate datastore name from the drop down list
   - **IP address** - Select the IP address from the list
   - **Rule Name** - Select **Dim_Dates_Population** from the list of all available transformations. (This is a seeded Data Transformation which is installed as part of the OFSRPA solution. If you don't see this in the list, contact Oracle support.)
   - **Parameter List** – Enter the **Start Date** and **End Date**.

     Explanation for the parameter list is:
     - **Start Date** - This is the starting date, from which the Transformation will populate DIM_DATES table. This date should be specified in 'YYYYMMDD' format.

       For example, '**20081131**'.
     - **End Date** - This is the end date, to which the Transformation will populate DIM_DATES table. This date should also be specified in 'YYYYMMDD' format.

       For example, '**20091231**'.
6. Click **Save**.

The Task definition is saved for the selected Batch.

You can execute a Batch definition from the *Batch Execution* section of *OFSAAI Operations* module.

The function can also be executed directly on the database through SQLPLUS.

Details are:

Function Name: FN_DIM_DATES

Parameters: P_BATCH_RUN_ID, P_AS_OF_DATE, P_ST_DT, and P_ED_DT

Sample Parameter Values: 'Batch1', '20091231', '20081131', and '20091231'

Checking the Execution Status

The Batch execution status can be monitored through Batch Monitor section of OFSAAI Operations module.

The status messages in Batch Monitor are:

N - Not Started

O - On Going

F - Failure

S – Success

The execution log can also be accessed on the application server in the directory *$FIC_DB_HOME/log/date*, where file name will have the Batch Execution ID.

You can access the database level operations log by querying the FSI_MESSAGE_LOG table. Filter the Batch Run ID column for identifying the relevant log.

> **Note:** Check the **.profile** file in the installation home if you are unable to find this path.

5

Account Dimension Population

Populating Accounts Dimension

Account Number is an alphanumeric unique identifier within each staging instrument tables. Hence, there is a need to generate a numeric surrogate key for each of the account number. This information is stored in DIM_ACCOUNT table.

Function **fn_popDimAccount** is a function to populate numeric surrogate key for each account number. The function performs the following:

- In case, surrogate key generation is required, then it uses a sequence to populate DIM_ACCOUNT table.
- In case, surrogate key generation is not required, then it expects that the account number to be numeric and populates DIM_ACCOUNT with that information.

Table Details - FSI_DIM_ACCOUNT_SETUP_DETAILS

Account dimension population makes use of setup table FSI_DIM_ACCOUNT_SETUP_DETAILS.

This table has seeded entries from the application installation and stores the account number column of the staging product processor tables.

Column Name	Data Type	Not Null	Column Description
TABLE_NAME	VARCHAR2(30)	Yes	This is the name of the Staging Product Processor Table.

Column Name	Data Type	Not Null	Column Description
ACCOUNT_NUMBER_COLUMN_NAME	VARCHAR2(30)	Yes	This is the Account Number Column Name of the staging Product Processor table .
LEG_TYPE_FLAG	CHAR(1)	No	In case, if the Pay Leg & Receive Leg instruments have both same data type then value will be 2.
SQL_TEXT	VARCHAR2(4000)	No	In case the user does not want to use a seeded Account Number Column Name, the user can customize the required by specifying the SQL Select statement. **Example** SELECT V_CONTRACT_CODE ACCOUNT_NUMBER ,FIC_MIS_DATE , case when v_ir_option_type in ('CAP','FLOOR') then 1 when v_ir_option_type in ('COLLAR') then 2 else null end LEG_TYPE FROM STG_OPTION_CONTRACTS

Sample Data:

TABLE_NAME	STG_CASA	STG_TD_CONTRACTS	STG_FUTURES
ACCOUNT_NUMBER_COLUMN_NAME	V_ACCOUNT_NUMBER	V_CONTRACT_CODE	V_CONTRACT_CODE
LEG_TYPE_FLAG			2
SQL_TEXT			

Executing the Account Dimension Population

You can execute the function from the *Operations* (formerly Information Command

Center (ICC) framework) module of OFSAAI, as mentioned below:

Define a new Batch and an underlying Task definition from the *Batch Maintenance* window of OFSAAI. For more information on defining a new Batch, refer to the section How to Define a Batch, page E-1.

> **Note:** A seeded batch <INFODOM>_aCRM_CommonTasks – Task3 is provided so that the user can just modify the parameters and execute the batch.

1. Select the check box adjacent to the newly created Batch Name in the *Batch Maintenance* window.
2. Click Add (+) button from the *Task Details* grid.

   The Task Definition window is displayed.
3. Enter the **Task ID** and **Description**.
4. Select **Transform Data** component from the drop down list.
5. Select the following from the **Dynamic Parameters** list:
   - **Datastore Type** - Select the appropriate datastore type from the drop down list
   - **Datastore Name** - Select the appropriate datastore name from the drop down list
   - **IP address** - Select the IP address from the list
   - **Rule Name** - Select **fn_popDimAccount** from the drop down list of available transformations. (This is a seeded Data Transformation which is installed as part of the OFSRPA solution installer. If you don't see this in the list, contact Oracle support).
   - Parameter List:
     - **Surrogate Key Required Flag** - Select **Y** or **N**.

       ICC passes **Batch run ID** and **As of Date** internally to the Data Transformation task.
6. Click **Save**.

   The Task definition is saved for the selected Batch.

You can execute a Batch definition from the *Batch Execution* section of *OFSAAI Operations* module.

Checking the Execution Status

The Batch execution status can be monitored through Batch Monitor section of OFSAAI Operations module.

The status messages in Batch Monitor are:

N - Not Started

O - On Going

F - Failure

S – Success

The execution log can also be accessed on the application server in the directory *$FIC_DB_HOME/log/date*, where file name will have the Batch Execution ID.

The database level operations log can be accessed by querying the FSI_MESSAGE_LOG table. The Batch Run ID column can be filtered for identifying the relevant log.

Check the **.profile** file in the installation home if you are not able to find the above path.

6

Exchange Rate History Population

Introduction

Exchange Rate History entity stores the exchange rates between the currencies for an effective date from one or multiple sources.

Exchange Rate History population should be executed before any fact table is populated to ensure exchange rates between currencies are available prior. Exchange Rate History entity is loaded by means of T2T Transformation process.

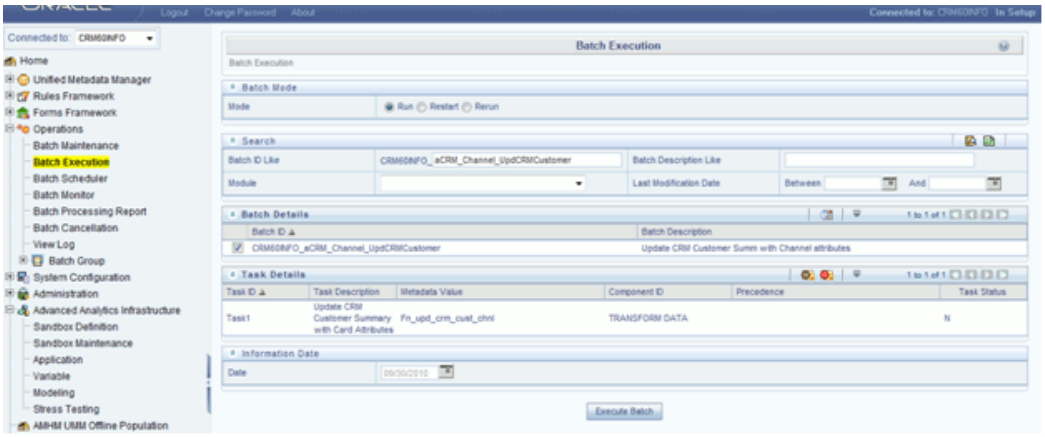
Following is the seeded T2T definition that loads data into Exchange Rate History:

T2T Definition Name	Source Table(s)	Destination Table
T2T_EXCHANGE_RATE_HIST	STG_EXCHANGE_RATE_HIST	FSI_EXCHANGE_RATE_HIST

Exchange Rate History Population

You can execute the function from the *Operations* (formerly Information Command Center (ICC) framework) module of OFSAAI.

A seeded batch, **<INFODOM>_aCRM_CommonTasks - Task4** has to be executed for the required date.



Define a new Batch and an underlying Task definition from the Batch Maintenance window of OFSAAI. For more information on defining a new Batch, refer to the section How to Define a Batch, page E-1.

To define a new task for a Batch definition:

1. Select the check box adjacent to the newly created Batch Name in the *Batch Maintenance* window.
2. Click Add (+) button from the *Task Details* grid.

   The Task Definition window is displayed.
3. Enter the **Task ID** and **Description**.
4. Select **Load Data** component from the drop down list.
5. Select the following from the **Dynamic Parameters** list:
   - **Datastore Type** - Select the appropriate datastore type from the drop down list
   - **Datastore Name** - Select the appropriate datastore name from the drop down list
   - **IP address** - Select the IP address from the list
   - **Load Mode** - Select Table to Table from the list.
   - **Source Name** - Select the **T2T Source Name** from the list.
   - **File Name** - Select the T2T transformation **T2T_EXCHANGE_RATE_HIST**.

     Data file name remains blank for any Table to Table Load mode.
6. Click **Save**.

The Task definition is saved for the selected Batch.

You can execute a Batch definition from the *Batch Execution* section of *OFSAAI Operations* module.

Check T2T component logs and batch messages to check the status of load.

T2T component can fail because of following cases:

- **Unique Constraint Error** - Target table may already contain the primary keys that are part of the staging tables.
- **NOT NULL Constraint Error** - This error occurs when the transformation does not have values for NOT NULL columns in the target table.

Checking the Execution Status

The Batch execution status can be monitored through Batch Monitor section of OFSAAI Operations module.

The status messages in Batch Monitor are:

N - Not Started

O - On Going

F - Failure

S – Success

The execution log can also be accessed on the application server in the directory *$FIC_DB_HOME/log/t2t* , where file name will have the Batch Execution ID.

7

Account Summary Population

Account Summary tables are loaded from the staging product processor tables using the Table to Table (T2T) component of Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) framework.

This chapter covers the following topics:

- Overview of Account Summary Tables
- Overview of Account Summary Population
- Prerequisites
- Executing the Account Summary Population T2T
- Checking the Execution Status
- Account Summary T2Ts

Overview of Account Summary Tables

Customer account level data from the Oracle Financial Services Analytical Applications (OFSAA) staging product processor tables must be consolidated into a standardized relational Business Intelligence (BI) data model. This consolidation is done to have all the staging product processor table data in a single Fact table.

The Account Summary table data can be used for building cubes which allow rollup of data for a dimension or a combination of dimensions.

This relational BI model consists of three vertically partitioned Account Summary tables that are organized by application subject area.

- FCT_COMMON_ACCOUNT_SUMMARY - This table is shared by all OFSAA BI applications which contain dimensional values, attributes, and financial measures which are generally applicable to the individual account records. This data is sourced directly from the staging area.
- FCT_CRM_ACCOUNT_SUMMARY - This table has the measures used by all the

Customer Insight applications.

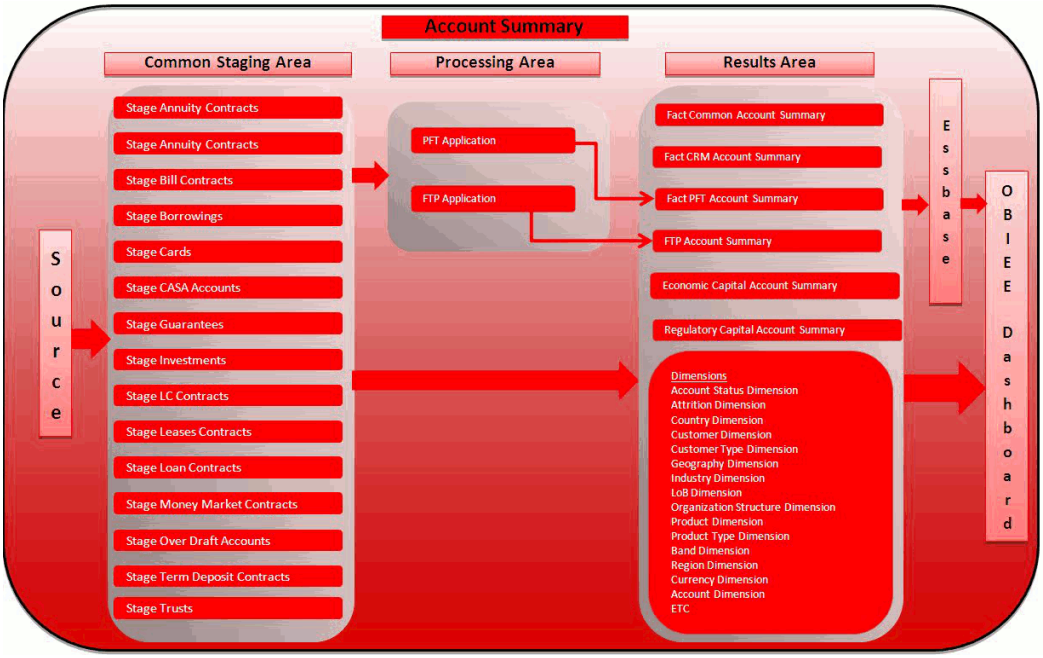
Yet, there are few other Account Summary tables which have been designed to store Enterprise Risk Management (ERM) data:

- FCT_PFT_ACCOUNT_SUMMARY - This table has Profitability Management (PFT) specific measures.
- FCT_FTP_ACCOUNT_SUMMARY - This table has Funds Transfer Pricing (FTP) specific measures.
- FCT_REG_CAP_ACCOUNT_SUMMARY - This table has Regulatory Capital specific measures.
- FCT_ECO_CAPITAL_ACCOUNT_SUMMARY - This table has Economic Capital specific measures.

The above mentioned Account Summary tables are part of OFSRPA data model but there are no seeded T2T definitions available to populate these tables. T2T processes must be custom configured to populate these tables to use measures defined on these tables for reporting.

Data Flow

The Below diagram depicts the flow of data into account summary tables:



Overview of Account Summary Population

Table to Table seeded definitions are provided for loading data into Common Account Summary and CRM Account summary tables.

Following are the lists for the same:

- **Common Account Summary**

SL No	Source Table	T2T Definition Name	Destination Table
1	STG_ANNUITY_CONTRACTS	T2T_STG_ANNUITY_CONTRACTS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
2	STG_BILLS_CONTRACTS	T2T_STG_BILLS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
3	STG_BORROWINGS	T2T_STG_BORROWINGS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
4	STG_CARDS	T2T_STG_CARDS_CAS	FCT_COMMON_ACCOUNT_SUMMARY

SL No	Source Table	T2T Definition Name	Destination Table
5	STG_CASA	T2T_STG_CASA_CAS	FCT_COMMON_ACCOUNT_SUMMARY
6	STG_GUARANTEES	T2T_STG_GUARANTEES_CAS	FCT_COMMON_ACCOUNT_SUMMARY
7	STG_INVESTMENTS	T2T_STG_INVESTMENTS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
8	STG_LC_CONTRACTS	T2T_STG_LC_CAS	FCT_COMMON_ACCOUNT_SUMMARY
9	STG_LEASES_CONTRACTS	T2T_STG_LEASES_CONTRACTS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
10	STG_LOAN_CONTRACTS	T2T_STG_LOANS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
11	STG_MM_CONTRACTS	T2T_STG_MM_CAS	FCT_COMMON_ACCOUNT_SUMMARY
12	STG_OD_ACCOUNTS	T2T_STG_OD_CAS	FCT_COMMON_ACCOUNT_SUMMARY
13	STG_TD_CONTRACTS	T2T_STG_TD_CONTRACTS_CAS	FCT_COMMON_ACCOUNT_SUMMARY
14	STG_TRUSTS	T2T_STG_TRUSTS_CAS	FCT_COMMON_ACCOUNT_SUMMARY

- **CRM Account Summary**

Sl No.	Source Table	T2T Definition Name	Destination Table
1	STG_ANNUITY_CONTRACTS	T2T_STG_CRMAS_ANNUITY_CONTRACTS	FCT_CRM_ACCOUNT_SUMMARY

Sl No.	Source Table	T2T Definition Name	Destination Table
2	STG_BILLS_CONTRACTS	T2T_STG_CRMAS_BILLS_CONTRACTS	FCT_CRM_ACCOUNT_SUMMARY
3	STG_BORROWINGS	T2T_STG_CRMAS_BORROWINGS	FCT_CRM_ACCOUNT_SUMMARY
4	STG_CARDS	T2T_STG_CRMAS_CARDS	FCT_CRM_ACCOUNT_SUMMARY
5	STG_CASA	T2T_STG_CRMAS_CASA	FCT_CRM_ACCOUNT_SUMMARY
6	STG_GUARANTEES	T2T_STG_CRMAS_GUARANTEES	FCT_CRM_ACCOUNT_SUMMARY
7	STG_INVESTMENTS	T2T_STG_CRMAS_INVESTMENTS	FCT_CRM_ACCOUNT_SUMMARY
8	STG_LC_CONTRACTS	T2T_STG_CRMAS_LC_CONTRACTS	FCT_CRM_ACCOUNT_SUMMARY
9	STG_LEASES_CONTRACTS	T2T_STG_CRMAS_LEASES_CONTRACTS	FCT_CRM_ACCOUNT_SUMMARY
10	STG_LOAN_CONTRACTS	T2T_STG_CRMAS_LOAN_CONTRACTS	FCT_CRM_ACCOUNT_SUMMARY
11	STG_MM_CONTRACTS	T2T_STG_CRMAS_MM_CONTRACTS	FCT_CRM_ACCOUNT_SUMMARY
12	STG_OD_ACCOUNTS	T2T_STG_CRMAS_OD_ACCOUNTS	FCT_CRM_ACCOUNT_SUMMARY
13	STG_TD_CONTRACTS	T2T_STG_CRMAS_TD_CONTRACTS	FCT_CRM_ACCOUNT_SUMMARY
14	STG_TRUSTS	T2T_STG_CRMAS_TRUSTS	FCT_CRM_ACCOUNT_SUMMARY

Note: Currency Exchange Rate History table has to be populated prior

to loading the Account Summary tables.

Prerequisites

1. All the post install steps mentioned in the *Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) Installation and Configuration guide* and the solution installation manuals of *Oracle Financial Services Retail Performance Analytics* have to be completed successfully.

2. Application User must be mapped to a role that has seeded batch execution function (BATPRO).

3. Before executing a batch, check if the following services are running on the application server.

    1. Iccserver

    2. Router

    3. AM Server

    4. Messageserver

    For more information on how to check if the services are up and on, and how to start the services if you find them not running, refer to*Oracle Financial Services Analytical Applications Infrastructure User Guide.*

4. Batches have to be created for executing. This is explained in the section Executing the Account Summary Population T2T, page 7-8.

5. Dimension Population should have been done before you execute the T2T batch.

    For more information, refer to the chapters Dimension Loading Process, and Time Dimension Population, page 4-1.

Fact Common Account Summary

Following are the lists of tables used in the population of Fact Common Account Summary and Fact CRM Account Summary tables. These Dimension tables are required to be loaded prior to executing the T2T:

- DIM_DATES
- DIM_ACCOUNT
- DIM_CUSTOMER

- DIM_PRODUCT
- DIM_CHANNEL
- DIM_BANDS
- DIM_ORG_STRUCTURE

Fact CRM Account Summary

Fact Common Account Summary entity needs to be populated before executing the Fact CRM Account Summary T2Ts.

Following are the list of tables used in the population of Fact CRM Account Summary and these tables are required to be loaded along with the staging tables, prior to running the T2T:

- DIM_DATES
- DIM_ACCOUNT
- FCT_COMMON_ACCOUNT_SUMMARY
- DIM_ACCT_STATUS
- DIM_BANDS
- DIM_CAMPAIGN
- DIM_CHANNEL
- DIM_CUSTOMER
- DIM_ORG_STRUCTURE
- DIM_LOB
- DIM_OFFER
- DIM_PRODUCT
- DIM_PROSPECT
- DIM_RETENTION_OFFER_TYPE
- DIM_SALES_REPRESENTATIVE
- DIM_TREATMENT

- DIM_VINTAGE

For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on, refer to the section Dimension Tables Population, under the chapter *Dimension Loading Process*.

For more information on populating account dimension, refer to the chapter Account Dimension Population, page 5-1.

For details on populating DIM_DATES dimension table, refer to the chapter Time Dimension Population, page 4-1.

For identifying fields required in Stage Customer Master and Stage Customer Details for the purpose of Customer Insight Application(s), refer to *Download Specification*.

For more information on the dimensions, refer to *ERwin Datamodel*.

Executing the Account Summary Population T2T

Fact Common Account Summary table has to be loaded prior loading any of the other Account Summary tables.

You can execute the function from the *Operations* (formerly Information Command Center (ICC) framework) module of OFSAAI.

Fact Common Account Summary

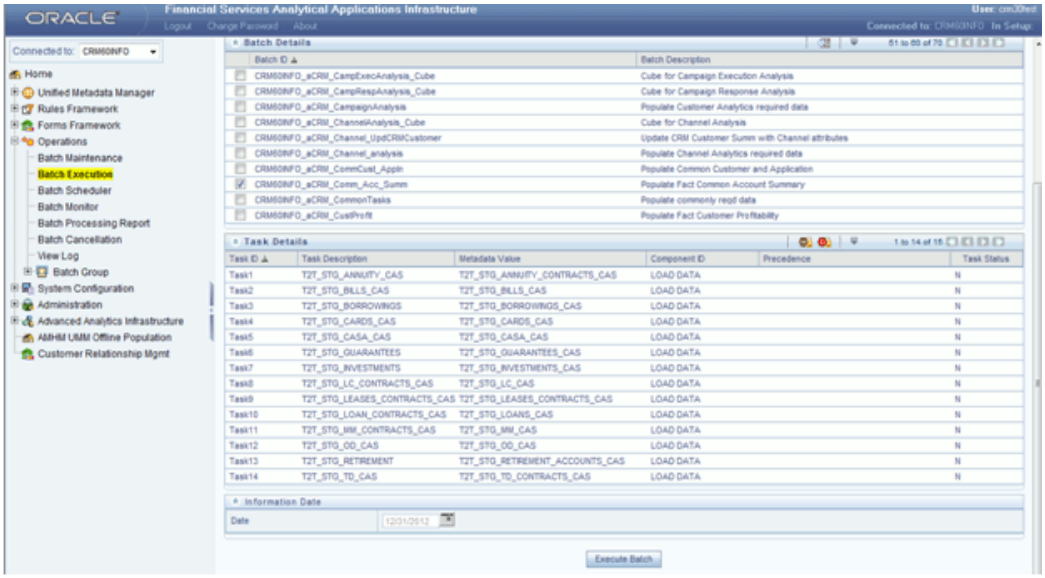
A seeded batch, **<Infodom>_aCRM_Comm_Acc_Summ** has to be executed for the required MIS Date.

The Tasks associated with this batch are the following:

Batch Name - Task ID	T2T Name	Result
<INFODOM>_aCRM_Comm_Acc_Summ - Task1	T2T_STG_ANNUITY_CONTRACTS_CAS	Data from Stg_Annuity_Contracts has to be loaded in to Fct_Common_Account_Summary
<INFODOM>_aCRM_Comm_Acc_Summ - Task2	T2T_STG_BILLS_CAS	Data from STG_BILLS_CONTRACTS has to be loaded in to Fct_Common_Account_Summary
<INFODOM>_aCRM_Comm_Acc_Summ - Task3	T2T_STG_BORROWINGS_CAS	Data from STG_BORROWINGS has to be loaded in to Fct_Common_Account_Summary

Batch Name - Task ID	T2T Name	Result
<INFODOM>_aCRM_Comm_Acc_Summ - Task4	T2T_STG_CARDS_CAS	Data from Stg_Cards has to be loaded in to Fct_Common_Account_Summary
<INFODOM>_aCRM_Comm_Acc_Summ - Task5	T2T_STG_CASA_CAS	Data from Stg_CASA has to be loaded in to Fct_Common_Account_Summary
<INFODOM>_aCRM_Comm_Acc_Summ - Task6	T2T_STG_GUARANTEES_CAS	Data from Stg_Guarantees has to be loaded in to Fct_Common_Account_Summary
<INFODOM>_aCRM_Comm_Acc_Summ - Task7	T2T_STG_INVESTMENTS_CAS	Data from Stg_Investments has to be loaded in to Fct_Common_Account_Summary
<INFODOM>_aCRM_Comm_Acc_Summ - Task8	T2T_STG_LC_CAS	Data from STG_LC_CONTRACTS has to be loaded in to Fct_Common_Account_Summary
<INFODOM>_aCRM_Comm_Acc_Summ - Task9	T2T_STG_LEASES_CONTRACTS_CAS	Data from STG_LEASES_CONTRACTS has to be loaded in to Fct_Common_Account_Summary
<INFODOM>_aCRM_Comm_Acc_Summ - Task10	T2T_STG_LOANS_CAS	Data from STG_LOAN_CONTRACTS has to be loaded in to Fct_Common_Account_Summary
<INFODOM>_aCRM_Comm_Acc_Summ - Task11	T2T_STG_MM_CAS	Data from STG_MM_CONTRACTS has to be loaded in to Fct_Common_Account_Summary
<INFODOM>_aCRM_Comm_Acc_Summ - Task12	T2T_STG_OD_CAS	Data from STG_OD_ACCOUNTS has to be loaded in to Fct_Common_Account_Summary
<INFODOM>_aCRM_Comm_Acc_Summ - Task13	T2T_STG_TD_CONTRACTS_CAS	Data from STG_TD_CONTRACTS has to be loaded in to Fct_Common_Account_Summary

Batch Name - Task ID	T2T Name	Result
<INFODOM>_aCRM_Comm_Acc_Summ - Task14	T2T_STG_TRUSTS_CAS	Data from STG_TRUSTS has to be loaded in to Fct_Common_Account_Summary



Define a new Batch and an underlying Task definition from the *Batch Maintenance* window of OFSAAI. For more information on defining a new Batch, refer to the section How to Define a Batch, page E-1.

To define a new task for a Batch definition:

1. Select the check box adjacent to the newly created Batch Name in the *Batch Maintenance* window.
2. Click Add (+) button from the *Task Details* grid.

   The Task Definition window is displayed.
3. Enter the **Task ID** and **Description**.
4. Select **Load Data** component from the drop down list.
5. Select the following from the **Dynamic Parameters** list:
   - **Datastore Type** - Select the appropriate datastore type from the drop down list

- **Datastore Name** - Select the appropriate datastore name from the drop down list
- **IP address** - Select the IP address from the list
- **Load Mode** - Select Table to Table from the list.
- **Source Name** - Select **<T2T Source Name>** from the list.
- **File Name** - Select the T2T name for the source stage channel table you want to process.

Data file name remains blank for any T2T Load mode.

Default value refers to currency calculation. If there is any need for currency conversion in T2T transactions, Default value has to be provided.

For example, default value is [DRCY]='USD' Here 'USD' acts as reporting currency parameter to T2T.

6. Click **Save**.

   The Task definition is saved for the selected Batch.

You can execute a Batch definition from the *Batch Execution* section of *OFSAAI Operations* module.

Fact CRM Account Summary

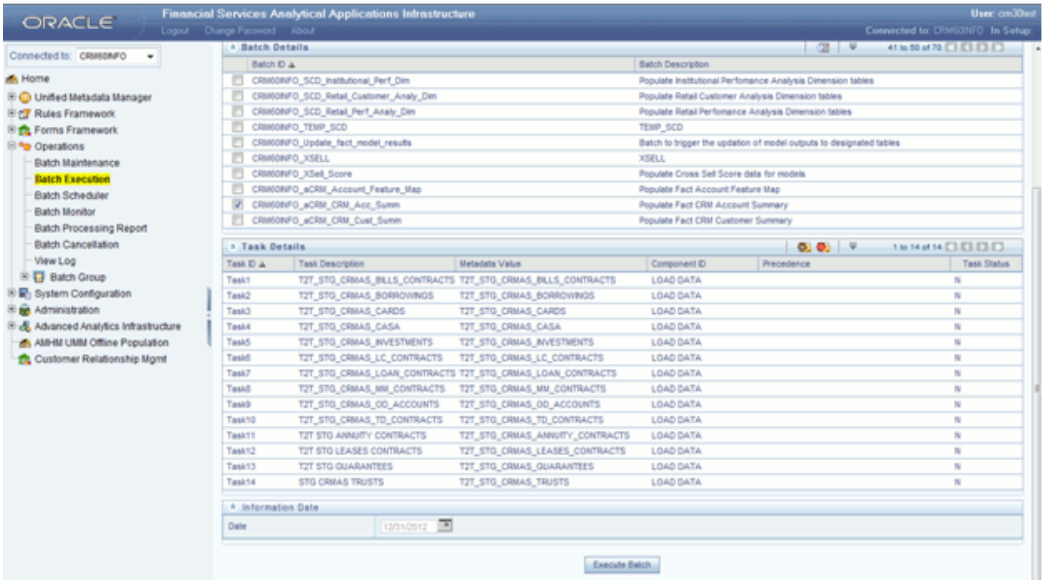
A seeded batch, **<Infodom>_aCRM_CRM_Acc_Summ** has to be executed for the required MIS Date.

The Tasks associated with this Batch are:

Batch Name - Task ID	T2T Name	Result
<INFODOM>_aCRM_CRM_Acc_Summ - Task1	T2T_STG_CRMAS_BILLS_CONTRACTS	Data from STG_BILLS_CONTRACTS has to be loaded in to FCT_CRM_ACCOUNT_SUMMARY
<INFODOM>_aCRM_CRM_Acc_Summ - Task2	T2T_STG_CRMAS_BORROWINGS	Data from STG_BORROWINGS has to be loaded in to FCT_CRM_ACCOUNT_SUMMARY

Batch Name - Task ID	T2T Name	Result
<INFODOM>_aCRM_CRM_Acc_Summ - Task3	T2T_STG_CRMAS_CARDS	Data from Stg_Cards has to be loaded in to FCT_CRM_ACCOUNT_SUMMARY
<INFODOM>_aCRM_CRM_Acc_Summ - Task4	T2T_STG_CRMAS_CASA	Data from Stg_CASA has to be loaded in to FCT_CRM_ACCOUNT_SUMMARY
<INFODOM>_aCRM_CRM_Acc_Summ - Task5	T2T_STG_CRMAS_INVESTMENTS	Data from Stg_Investments has to be loaded in to FCT_CRM_ACCOUNT_SUMMARY
<INFODOM>_aCRM_CRM_Acc_Summ - Task6	T2T_STG_CRMAS_LC_CONTRACTS	Data from STG_LC_CONTRACTS has to be loaded in to FCT_CRM_ACCOUNT_SUMMARY
<INFODOM>_aCRM_CRM_Acc_Summ - Task7	T2T_STG_CRMAS_LOAN_CONTRACTS	Data from STG_LOAN_CONTRACTS has to be loaded in to FCT_CRM_ACCOUNT_SUMMARY
<INFODOM>_aCRM_CRM_Acc_Summ - Task8	T2T_STG_CRMAS_MM_CONTRACTS	Data from STG_MM_CONTRACTS has to be loaded in to FCT_CRM_ACCOUNT_SUMMARY
<INFODOM>_aCRM_CRM_Acc_Summ - Task9	T2T_STG_CRMAS_OD_ACCOUNTS	Data from STG_OD_ACCOUNTS has to be loaded in to FCT_CRM_ACCOUNT_SUMMARY
<INFODOM>_aCRM_CRM_Acc_Summ - Task10	T2T_STG_CRMAS_TD_CONTRACTS	Data from STG_TD_CONTRACTS has to be loaded in to FCT_CRM_ACCOUNT_SUMMARY
<INFODOM>_aCRM_CRM_Acc_Summ - Task11	T2T_STG_CRMAS_ANNUITY_CONTRACTS	Data from Stg_Annuity_Contracts has to be loaded in to FCT_CRM_ACCOUNT_SUMMARY
<INFODOM>_aCRM_CRM_Acc_Summ - Task12	T2T_STG_CRMAS_LEASES_CONTRACTS	Data from STG_LEASES_CONTRACTS has to be loaded in to FCT_CRM_ACCOUNT_SUMMARY

Batch Name - Task ID	T2T Name	Result
<INFODOM>_aCRM_CRM_Acc_Summ - Task13	T2T_STG_CRMAS_GUARANTEES	Data from Stg_Guarantees has to be loaded in to FCT_CRM_ACCOUNT_SUMMARY
<INFODOM>_aCRM_CRM_Acc_Summ - Task14	T2T_STG_CRMAS_TRUSTS	Data from STG_TRUSTS has to be loaded in to FCT_CRM_ACCOUNT_SUMMARY



Define a new Batch and an underlying Task definition from the *Batch Maintenance* window of OFSAAI. For more information on defining a new Batch, refer to the section How to Define a Batch, page E-1.

To define a new task for a Batch definition:

1. Select the check box adjacent to the newly created Batch Name in the *Batch Maintenance* window.
2. Click Add (+) button from the *Task Details* grid.

   The Task Definition window is displayed.
3. Enter the **Task ID** and **Description**.
4. Select **Load Data** component from the drop down list.

5. Select the following from the **Dynamic Parameters** list:

   - **Datastore Type** - Select the appropriate datastore type from the drop down list
   - **Datastore Name** - Select the appropriate datastore name from the drop down list
   - **IP address** - Select the IP address from the list
   - **Load Mode** - Select Table to Table from the list.
   - **Source Name** - Select **<T2T Source Name>** from the list.
   - **File Name** - Select the T2T name for the source stage channel table you want to process.

   Data file name remains blank for any T2T Load mode.

   Default value refers to currency calculation. If there is any need for currency conversion in T2T transactions, Default value has to be provided.

   For example, default value is [DRCY]='USD' Here 'USD' acts as reporting currency parameter to T2T.

6. Click **Save**.

   The Task definition is saved for the selected Batch.

You can execute a Batch definition from the *Batch Execution* section of *OFSAAI Operations* module.

Checking the Execution Status

The Batch execution status can be monitored through *Batch Monitor* section of *OFSAAI Operations* module.

The status messages in Batch Monitor are:

N - Not Started

O - On Going

F - Failure

S – Success

The execution log can be accessed on the application server in the directory *$FIC_DB_HOME/log/t2t*, where the file name will have the Batch Execution ID.

The following tables can be queried for errors:

- FCT_COMMON_ACCOUNT_SUMMARY$

- FCT_CRM_ACCOUNT_SUMMARY$

Account Summary T2Ts

T2T definitions can be retrieved as an excel document for reference from the Metadata Browser section in Unified Metadata Manager (UMM) component of OFSAAI.

For more information, refer to*Oracle Financial Services Analytical Applications Infrastructure User Guide.*

8

Customer Summary Population

This chapter explains the process flow for populating Fact Common Customer Summary table.

This chapter covers the following topics:

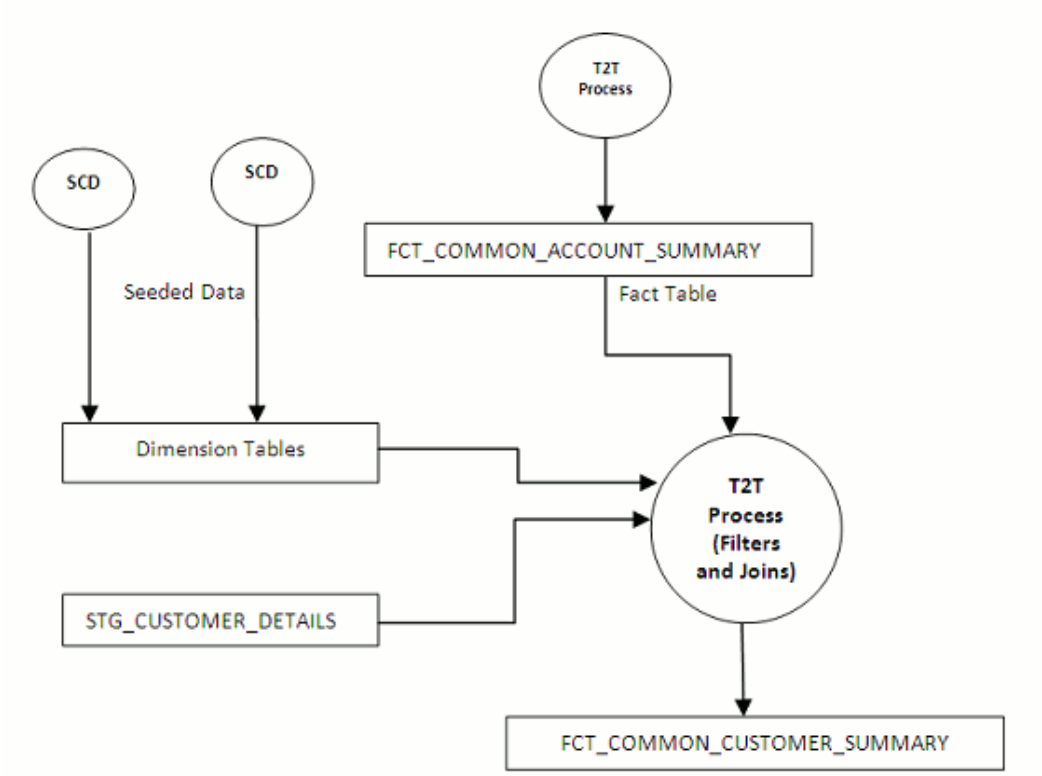
- Overview of Common Customer Summary Tables
- Prerequisites
- Executing the Customer Summary Population T2T

Overview of Common Customer Summary Tables

Fact Common Customer Summary table stores attributes pertaining to customer related data on an 'as-is' basis received from the source system. Data is populated into this table using T2T.

Customer balances are derived from account summary. Customer relationship table drives the relationship between accounts and customers. Common customer summary data is populated for all the active customers in customer dimension.

Following data flow diagram explains the process flow for populating Fact Common Customer Summary table:



Prerequisites

Following are the lists of tables used in the population of Fact Common Customer Summary and these tables are required to be loaded prior to running the T2T:

- DIM_CUSTOMER
- DIM_BANDS
- DIM_EDUCATION
- DIM_CUSTOMER_TYPE
- DIM_GENDER
- DIM_INDUSTRY
- DIM_CHANNEL
- DIM_GEOGRAPHY
- DIM_MARITAL_STATUS

- DIM_MANAGEMENT
- DIM_PROFESSION
- DIM_CREDIT_RATING
- DIM_VINTAGE
- DIM_MIGRATION_REASONS
- FCT_COMMON_ACCOUNT_SUMMARY
- FCT_LIMITS_SUMMARY
- STG_CUSTOMER_DETAILS
- STG_PARTY_RATING_DETAILS
- STG_PARTY_FINANCIALS

Dimensions tables are loaded through the SCD process. The fact tables such as FCT_COMMON_ACCOUNT_SUMMARY is loaded from their respective T2T processes.

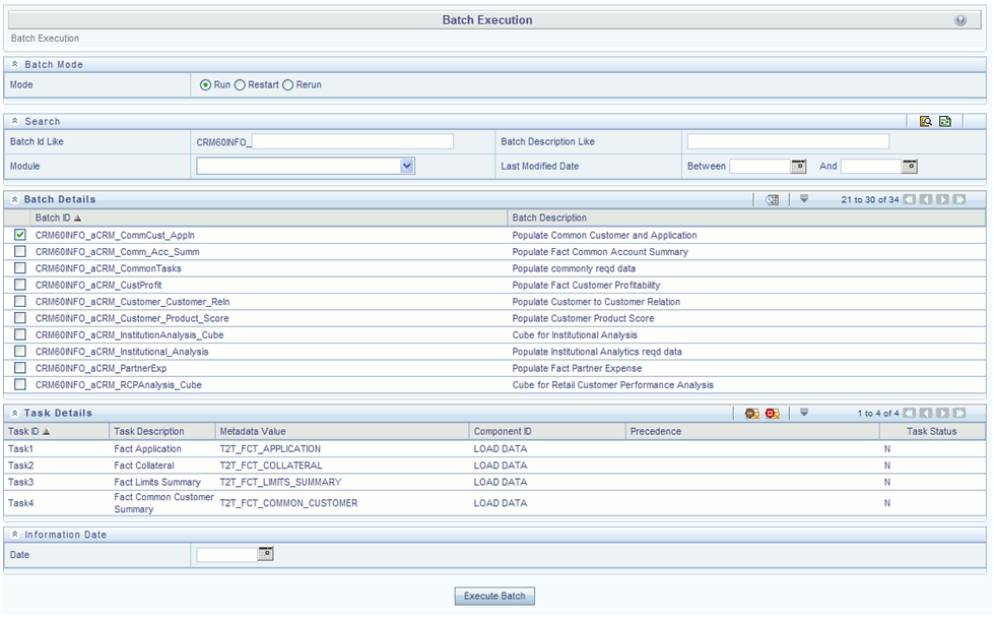
For more information on SCDs, refer to the chapter Dimension Loading Process, .

Executing the Customer Summary Population T2T

Fact Common Customer Summary T2T can be executed by executing **Task 4** - Fact Common Customer Summary, present in the seeded Batch **<INFODOM>_aCRM_CommCust_Appln**.

Perform the following to execute the Batch:

1. Navigate to *OFSAAI Home* > *Operations* > *Batch Execution* section.
2. Select the **Task 4 - Fact Common Customer Summary** of the seeded Batch **<INFODOM>_aCRM_CommCust_Appln**, where INFODOM is the information domain on which the application is installed.
3. Select the AS_OF_DATE for which source customer information is required to be loaded into the table.
4. Click **Execute Batch**.
5. You can monitor the status of the Batch execution from the *Batch Monitor* section.



Error Messages

Following is the most common error message which will be logged in the T2T log file present in the *$FIC_DB_HOME/logs/t2t folder*:

- **Unique Constraint Violation** : This occurs when attempting to load or reload existing records for any of the already executed AS_OF_DATE.

9

Fact Data Population

Introduction

This chapter explains all the fact tables which within describe about the seeded T2T Definitions with related Source Table and Destination tables. Prerequisites needed in population of the Fact table and tables required to be loaded prior to running the T2T.

Each fact table contains a section on how to execute the T2T component from OFSAA Infrastructure ICC framework and access the execution log to check the execution status.

Fact CRM Customer Summary

Fact CRM Customer Summary entity captures different derived/computed customer attributes pertaining to Customer Insight. Fact Common Customer Summary stores the generic application-agnostic source/raw customer attributes. Fact CRM Customer Summary is a vertical partitioned entity and has relationship to Fact Common Customer Summary.

Load Data into Fact CRM Customer Summary

Customer balances in the Fact CRM Customer Summary entity are derived from account summary. Customer relationship entity drives the relationship between accounts and customers.

Following is the seeded Table-to-Table definitions that loads data related to Fact CRM Customer Summary:

T2T Definition Name	Source Table(s)	Destination Table
T2T_FCT_CRM_CUSTOMER_	STG_CUSTOMER_MASTER	FCT_CRM_CUSTOMER_S

T2T Definition Name	Source Table(s)	Destination Table
SUMMARY	STG_CUSTOMER_DETAILS	UMMARY
	DIM_DATES	
	DIM_CUSTOMER	
	FCT_COMMON_ACCOUNT_ SUMMARY	
	FCT_CRM_ACCOUNT_SUM MARY	

To view the detailed structure of the tables, refer to *Oracle Financial Services Analytical Applications Data Model Data Dictionary* or the *Erwin Data Model*.

Prerequisites

Fact Common Customer Summary entity needs to be populated before executing the Fact CRM Customer Summary T2T. Refer to the chapter Fact Common Account Summary, page 7-8 for details on Fact Common Customer Summary T2Ts.

Following tables are used in the population of Fact CRM Customer Summary and these tables should be populated with relevant data prior to executing the T2T:

- STG_CUSTOMER_MASTER - Mandatory
- STG_CUSTOMER_DETAILS - Mandatory
- DIM_DATES - Mandatory
- DIM_CUSTOMER - Mandatory
- FCT_COMMON_ACCOUNT_SUMMARY - Mandatory
- FCT_CRM_ACCOUNT_SUMMARY - Mandatory
- DIM_BANDS - Optional

For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on, refer to the section Dimension Tables Population, under the chapter *Dimension Loading Process*.

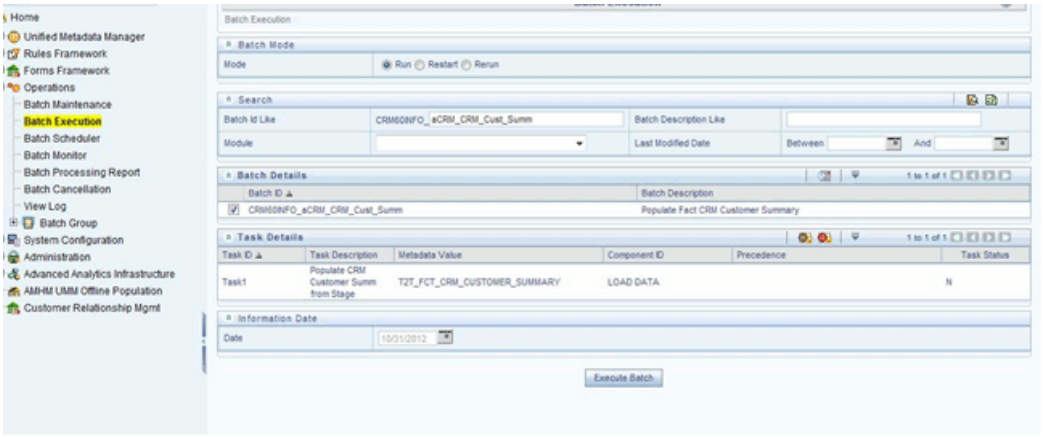
For details on populating DIM_DATES dimension table, refer to the chapter Time Dimension Population, page 4-1.

For identifying fields required in Stage Customer Master and Stage Customer Details for the purpose of Customer Insight Application(s), refer to *Download Specification*.

For details on populating these fact tables, refer to the sections Population of Fact CRM Customer Summary, page 9-1 and Fact CRM Account Summary, page 7-11.

Executing the Fact CRM Customer Summary Population T2Ts

You can execute the function from the *Operations* (formerly Information Command Center (ICC) framework) module of OFSAAI. A seeded batch, **<Infodom>_aCRM_CRM_Cust_Summ** has to be executed for the required MIS Date.



To define a new task for a Batch definition:

1. Select the check box adjacent to the newly created Batch Name in the *Batch Maintenance* window.
2. Click Add (+) button from the *Task Details* grid.

   The Task Definition window is displayed.
3. Enter the **Task ID** and **Description**.
4. Select **Load Data** component from the drop down list.
5. Select the following from the **Dynamic Parameters** list:
   - **Datastore Type** - Select the appropriate datastore type from the drop down list
   - **Datastore Name** - Select the appropriate datastore name from the drop down list
   - **IP address** - Select the IP address from the list
   - **Load Mode** - Select **Table to Table** from the list.

- **Source Name** - Select the **<T2T Source Name>** from the list.
- **File Name** - Select the T2T name "T2T_FCT_CRM_CUSTOMER_SUMMARY" to process.

Data file name will be blank for any Table to Table Load mode.

Default value refers to any parameter that has to be passed to T2T. It has to be blank.

6. Click **Save**.

   The Task definition is saved for the selected Batch.

You can execute a Batch definition from the *Batch Execution* section of *OFSAAI Operations* module.

Checking the Execution Status

The Batch execution status can be monitored through Batch Monitor section of OFSAAI Operations module.

The status messages in Batch Monitor are:

N - Not Started

O - On Going

F - Failure

S – Success

The execution log can be accessed on the application server in the directory *$FIC_DB_HOME/log/t2t*, where the file name will have the Batch Execution ID.

The following tables can be queried for errors:

- FCT_CRM_CUSTOMER_SUMMARY

Update Fact CRM Customer Summary with Transaction Attributes

A seeded Data Transformation is provided with the installer which updates the entity Fact CRM Customer Summary with transaction attributes of customer such as ATM usage, Branch usage, net usage, POS usage, Number of ATM transactions, transacted amount, and so on.

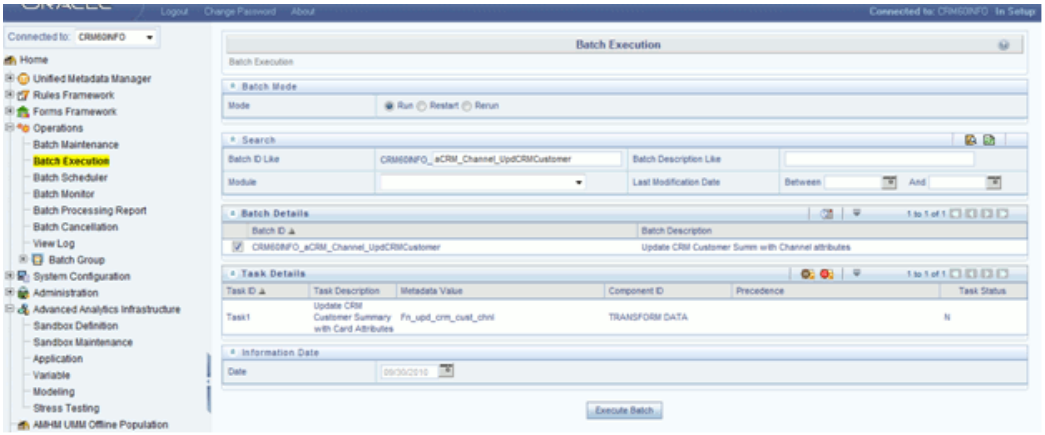
The following table lists the seeded Post Load Transformation Definition with related Source Table and Destination tables:

DT Definition Name	Source Tables	Destination Table
FN_UPD_CRM_CUST_CHNL	FCT_TXN_CHANNEL	FCT_CRM_CUSTOMER_SUMMARY

You can execute the function from the *Operations* (formerly Information Command Center (ICC) framework) module of OFSAAI, as mentioned below:

Define a new Batch and an underlying Task definition from the Batch Maintenance window of OFSAAI. For more information on defining a new Batch, refer to the section How to Define a Batch, page E-1.

A seeded batch, **<Infodom>_aCRM_Channel_UpdCRMCustomer** has to be executed for the required MIS Date.



To define a new task for a Batch definition:

1. Select the check box adjacent to the newly created Batch Name in the *Batch Maintenance* window.
2. Click Add (+) button from the *Task Details* grid.

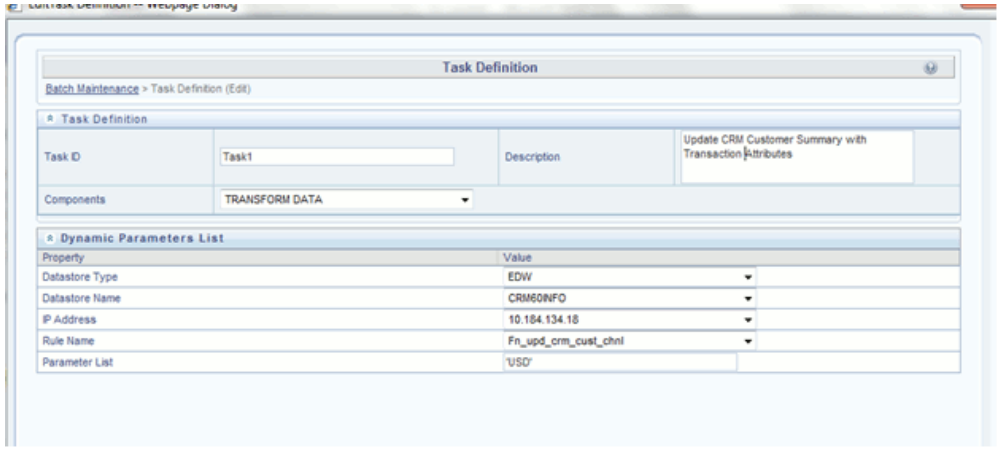
   The Task Definition window is displayed.
3. Enter the **Task ID** and **Description**.
4. Select **TRANSFORM DATA** component from the drop down list.
5. Select the following from the **Dynamic Parameters** list:
   - **Datastore Type** - Select the appropriate datastore type from the drop down list
   - **Datastore Name** - Select the appropriate datastore name from the drop down

list

- **IP address** - Select the IP address from the list
- **Rule Name** - Select **FN_UPD_CRM_CUST_CHNL** from the drop down list.
- Enter the Parameter List details as mentioned below:
  - **Reload Account Profitability table for the given MIS Date flag** - Enter Y or N within single quotes.
  - **Reporting Currency code** - This has to be enclosed within single quotes.

    For Example, if reporting currency is in US Dollar, then '**USD**' has to be specified.

    Note: Batch run ID and **As Of Date** are passed internally by the batch to the Data Transformation task.

6. 

7. Click **Save**.

   The Task definition is saved for the selected Batch.

You can execute a Batch definition from the *Batch Execution* section of *OFSAAI Operations* module.

Checking the Execution Status

The status of execution can be monitored using the *Batch Monitor* screen of OFSAAI.

The status messages in Batch Monitor are :

- N - Not Started

- O - On Going
- F - Failure
- S – Success

The execution log can be accessed on the application server in the following directory:

$FIC_DB_HOME/log/date.

The file name will have the batch execution id.

> **Note:** For more information on configuration and execution of a batch, refer to *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

Fact Account Feature Map

A product might be facilitated with its own features. Fact Account Feature Map entity stores the mapping between the Account and Product Feature that is the features of the product availed by the customer account. Product processor tables in staging have information related to customer accounts.

Following table lists the seeded T2T Definitions with related Source Table and Destination tables:

T2T Definition Name	Source Staging Table	Destination Table
T2T_FCT_ACCOUNT_FEATURE_MAP	STG_ACCT_FEATURE_MAP	FCT_ACCOUNT_FEATURE_MAP

To view the detailed structure of the tables, refer to *Erwin Data Model*.

Prerequisites

Following are the lists of tables used in the population of Fact Account Feature Map and these tables are required to be loaded prior to executing the T2T:

- DIM_DATES
- DIM_PRODUCT_FEATURE
- DIM_ACCOUNT
- DIM_CUSTOMER

- DIM_PRODUCT
- DIM_VENDOR
- DIM_CAMPAIGN
- DIM_CHANNEL

For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on refer to the section Dimension Tables Population, under the chapter *Dimension Loading Process*.

For details on populating DIM_DATES dimension table, refer to the chapter Time Dimension Population, page 4-1.

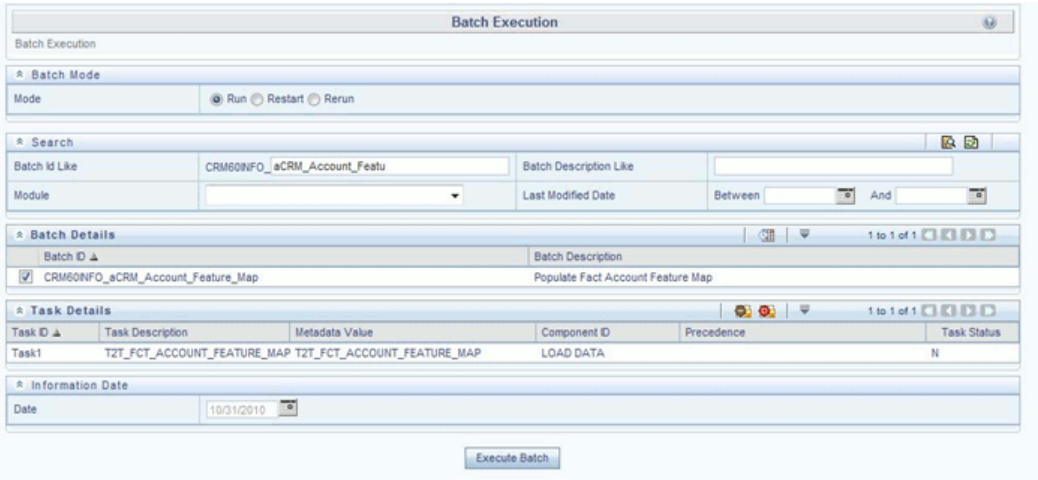
For identifying fields required in Stage Customer Master and Stage Customer Details for the purpose of Customer Insight Application(s), refer to *Download Specification*.

Executing the Fact Account Feature Map Population T2T

You can execute the function from the *Operations* (formerly Information Command Center (ICC) framework) module of OFSAAI.

Define a new Batch and an underlying Task definition from the Batch Maintenance window of OFSAAI. For more information on defining a new Batch, refer to the section How to Define a Batch, page E-1.

A seeded batch, **<Infodom>_aCRM_Account_Feature_Map** has to be executed for the required MIS Date.



To define a new task for a Batch definition:

1. Select the check box adjacent to the newly created Batch Name in the *Batch Maintenance* window.

2. Click Add (+) button from the *Task Details* grid.

   The Task Definition window is displayed.

3. Enter the **Task ID** and **Description**.

4. Select **Load Data** component from the drop down list.

5. Select the following from the **Dynamic Parameters** list:

   - **Datastore Type** - Select the appropriate datastore type from the drop down list
   - **Datastore Name** - Select the appropriate datastore name from the drop down list
   - **IP address** - Select the IP address from the list
   - **Load Mode** - Select **Table to Table** from the list.
   - **Source Name** - Select **<T2T Source Name>** from the list.
   - **File Name** - Select the T2T name "T2T_FCT_ACCOUNT_FEATURE_MAP" you want to process.

     Data file name remains blank for any T2T Load mode.

     Default value refers to any parameter that has to be passed to T2T. This should be blank.

6. Click **Save**.

   The Task definition is saved for the selected Batch.

You can execute a Batch definition from the *Batch Execution* section of *OFSAAI Operations* module.

Checking the Execution Status

The Batch execution status can be monitored through Batch Monitor section of OFSAAI Operations module.

The status messages in Batch Monitor are:

N - Not Started

O - On Going

F - Failure

S – Success

The execution log can be accessed on the application server in the directory *$FIC_DB_HOME/log/t2t*, where the file name will have the Batch Execution ID.

The following tables can be queried for errors:

- FCT_ACCOUNT_FEATURE_MAP$

Fact Cards Balance Summary

Fact Cards Balance Summary entity stores the balance details across various balance categories like Balance, Interest rate, Current payment, and others for each card account.

Following table lists the seeded T2T Definitions with related Source Table and Destination tables:

T2T Definition Name	Source Staging Table	Destination Table
T2T_FCT_CARDS_BALANCE_SUMM	STG_CARDS_BALANCE_SUMMARY	FCT_CARDS_BALANCE_SUMMARY

To view the detailed structure of the tables, refer to *Erwin Data Model*.

Prerequisites

Following are the lists of tables used in the population of Fact Cards Balance Summary and these tables are required to be loaded prior to running the T2T:

- DIM_DATES
- DIM_BALANCE_CATEGORY
- DIM_ACCOUNT
- STG_CARDS_BALANCE_SUMMARY

For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on refer to the section Dimension Tables Population, under the chapter *Dimension Loading Process*.

For details on populating DIM_DATES dimension table, refer to the chapter Time Dimension Population, page 4-1.

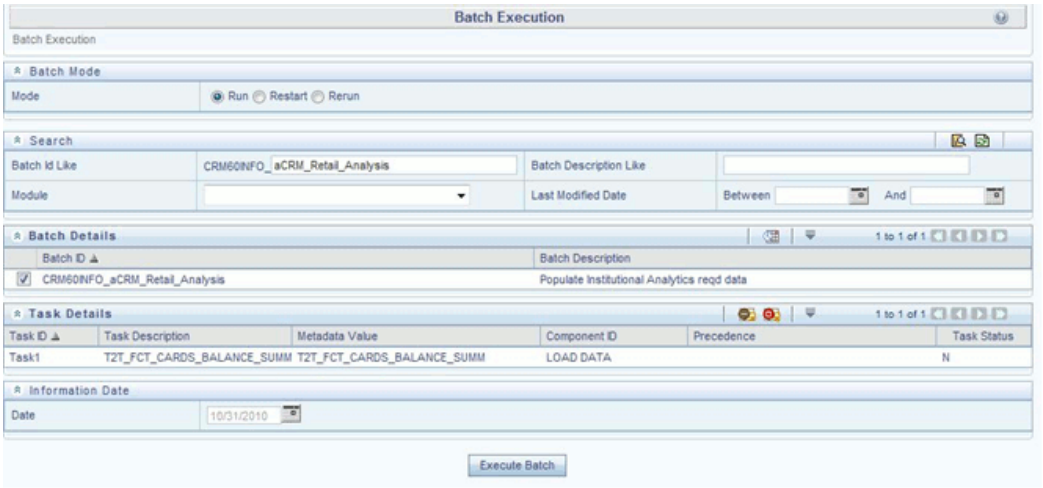
For identifying fields required in Stage Customer Master and Stage Customer Details for the purpose of Customer Insight Application(s), refer to *Download Specification*.

Executing the Fact Cards Balance Summary Population T2T

You can execute the function from the *Operations* (formerly Information Command Center (ICC) framework) module of OFSAAI.

Define a new Batch and an underlying Task definition from the Batch Maintenance window of OFSAAI. For more information on defining a new Batch, refer to the section How to Define a Batch, page E-1.

A seeded batch, **<Infodom>_aCRM_Retail_Analysis - Task1** has to be executed for the required MIS Date.



To define a new task for a Batch definition:

1. Select the check box adjacent to the newly created Batch Name in the *Batch Maintenance* window.
2. Click Add (+) button from the *Task Details* grid.

   The Task Definition window is displayed.
3. Enter the **Task ID** and **Description**.
4. Select **Load Data** component from the drop down list.
5. Select the following from the **Dynamic Parameters** list:
   - **Datastore Type** - Select the appropriate datastore type from the drop down list
   - **Datastore Name** - Select the appropriate datastore name from the drop down list
   - **IP address** - Select the IP address from the list
   - **Load Mode** - Select **Table to Table** from the list.
   - **Source Name** - Select **<T2T Source Name>** from the list.

- **File Name** - Select the T2T name "T2T_FCT_CARDS_BALANCE_SUMM" you want to process.

  Data file name will be blank for any Table to Table Load mode.

  Default value refers to any parameter that has to be passed to T2T. This should be blank.

6. Click **Save**.

   The Task definition is saved for the selected Batch.

You can execute a Batch definition from the *Batch Execution* section of *OFSAAI Operations* module.

Checking the Execution Status

The Batch execution status can be monitored through *Batch Monitor* section of *OFSAAI Operations* module.

The status messages in Batch Monitor are:

N - Not Started

O - On Going

F - Failure

S – Success

The execution log can be accessed on the application server in the directory *$FIC_DB_HOME/log/t2t*, where the file name will have the Batch Execution ID.

The following tables can be queried for errors:

- FCT_ CARDS_BALANCE_SUMMARY$

Fact Customer to Customer Relationship

Fact Customer to Customer Relationship entity stores the relationship between the customers. Example of relationship amongst customers could be Employer, Employee, Children, Parent, Spouse, and so on.

Following table lists the seeded T2T Definitions with related Source Table and Destination tables:

T2T Definition Name	Source Staging Table	Destination Table
T2T_CUST_CUST_RELATION	STG_CUST_CUST_RELATIONSHIP	FCT_CUST_CUST_RELATIONSHIP

To view the detailed structure of the tables, refer to *Erwin Data Model*.

Prerequisites

Following are the lists of tables used in the population of Fact Customer to Customer Relationship, and these tables are required to be loaded prior to running the T2T:

- DIM_DATES
- DIM_CUSTOMER
- STG_CUST_CUST_RELATIONSHIP

For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on refer to the section Dimension Tables Population, under the chapter *Dimension Loading Process*.

For details on populating DIM_DATES dimension table, refer to the chapter Time Dimension Population, page 4-1.

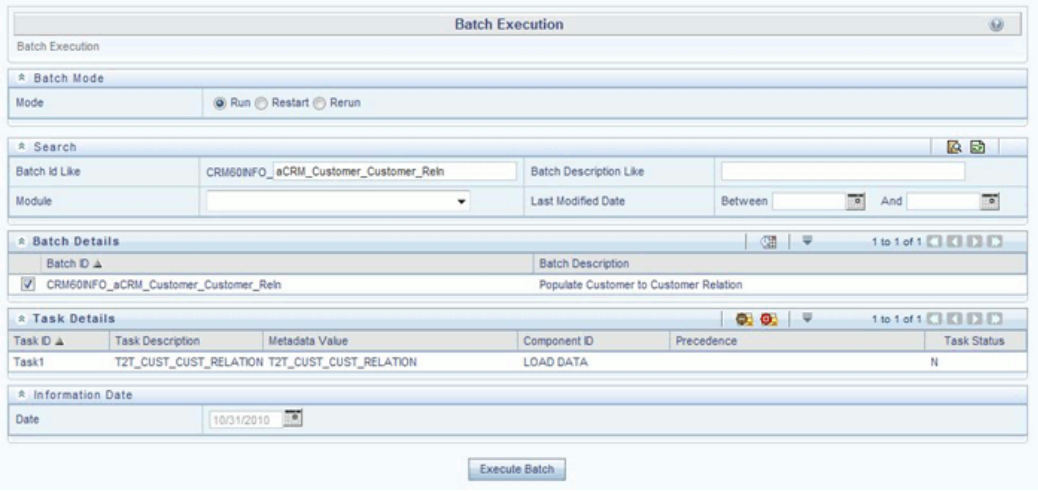
For identifying fields required in Stage Customer Master and Stage Customer Details for the purpose of Customer Insight Application(s), refer to *Download Specification*.

Executing the Fact Customer to Customer Relationship Population T2T

You can execute the T2T component from the *Operations* (formerly Information Command Center (ICC) framework) module of OFSAAI.

Define a new Batch and an underlying Task definition from the Batch Maintenance window of OFSAAI. For more information on defining a new Batch, refer to the section How to Define a Batch, page E-1.

A seeded batch, **<Infodom>_aCRM_Customer_Customer_Reln - Task1** has to be executed for the required MIS Date.



To define a new task for a Batch definition:

1. Select the check box adjacent to the newly created Batch Name in the *Batch Maintenance* window.
2. Click Add (+) button from the *Task Details* grid.

   The Task Definition window is displayed.
3. Enter the **Task ID** and **Description**.
4. Select **Load Data** component from the drop down list.
5. Select the following from the **Dynamic Parameters** list:
   - **Datastore Type** - Select the appropriate datastore type from the drop down list
   - **Datastore Name** - Select the appropriate datastore name from the drop down list
   - **IP address** - Select the IP address from the list
   - **Load Mode** - Select **Table to Table** from the list.
   - **Source Name** - Select **<T2T Source Name>** from the list.
   - **File Name** - Select the T2T name "T2T_CUST_CUST_RELATION" you want to process.

     Data file name remains blank for any T2T Load mode.

     Default value refers to any parameter that has to be passed to T2T. This should be blank.

6. Click **Save**.

   The Task definition is saved for the selected Batch.

You can execute a Batch definition from the *Batch Execution* section of *OFSAAI Operations* module.

Checking the Execution Status

The Batch execution status can be monitored through Batch Monitor section of OFSAAI Operations module.

The status messages in Batch Monitor are:

N - Not Started

O - On Going

F - Failure

S – Success

The execution log can be accessed on the application server in the directory *$FIC_DB_HOME/log/t2t*, where the file name will have the Batch Execution ID.

The following tables can be queried for errors:

- FCT_CUST_CUST_RELATIONSHIP$

Fact Transaction Channel

Fact Transaction Channel entity stores the details of all transactions (successful and failed) done through any of the transaction channels offered by the Financial Institutions. This fact entity is loaded from multiple source staging tables.

The following table lists the seeded T2T Definitions with related Source Table and Destination tables:

T2T Definition Name	Source Staging Table	Destination Table
T2T_TEL_FCT_TXN_CHANNEL	STG_SRC_TB_TXNS	FCT_TXN_CHANNEL
T2T_POS_FCT_TXN_CHANNEL	STG_SRC_POS_TXNS	
T2T_NET_FCT_TXN_CHANNEL	STG_SRC_NET_TXNS	

T2T Definition Name	Source Staging Table	Destination Table
T2T_BRA_FCT_TXN_CHANNEL	STG_SRC_BRANCH_TXNS	
T2T_ATM_FCT_TXN_CHANNEL	STG_SRC_ATM_TXNS	

To view the detailed structure of these tables, refer to *Erwin Data Model*.

Prerequisites

Following are the lists of tables used in the population of Fact Transaction Channel and these tables are required to be loaded prior to running the T2T:

- DIM_DATES
- DIM_TXN_CHANNEL
- DIM_ACCOUNT
- DIM_AUTH_DECISION_REASONS
- DIM_BANDS
- DIM_BROWSER_TYPE
- DIM_CARD_TYPE
- DIM_CURRENCY
- DIM_CUSTOMER
- DIM_CUSTOMER_TYPE
- DIM_GEOGRAPHY
- DIM_MERCHANT
- DIM_MERCHANT_CATEGORY
- DIM_PRODUCT
- DIM_TERMINAL
- DIM_TERMINAL_TYPE

- DIM_TRANSACTION
- DIM_TXN_FAILURE_REASON
- DIM_TXN_STATUS
- STG_SRC_ATM_TXNS
- STG_SRC_BRANCH_TXNS
- STG_SRC_NET_TXNS
- STG_SRC_POS_TXNS
- STG_SRC_TB_TXNS

For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on refer to the section Dimension Tables Population, under the chapter *Dimension Loading Process*.

For details on populating DIM_DATES dimension table, refer to the chapter Time Dimension Population, page 4-1.

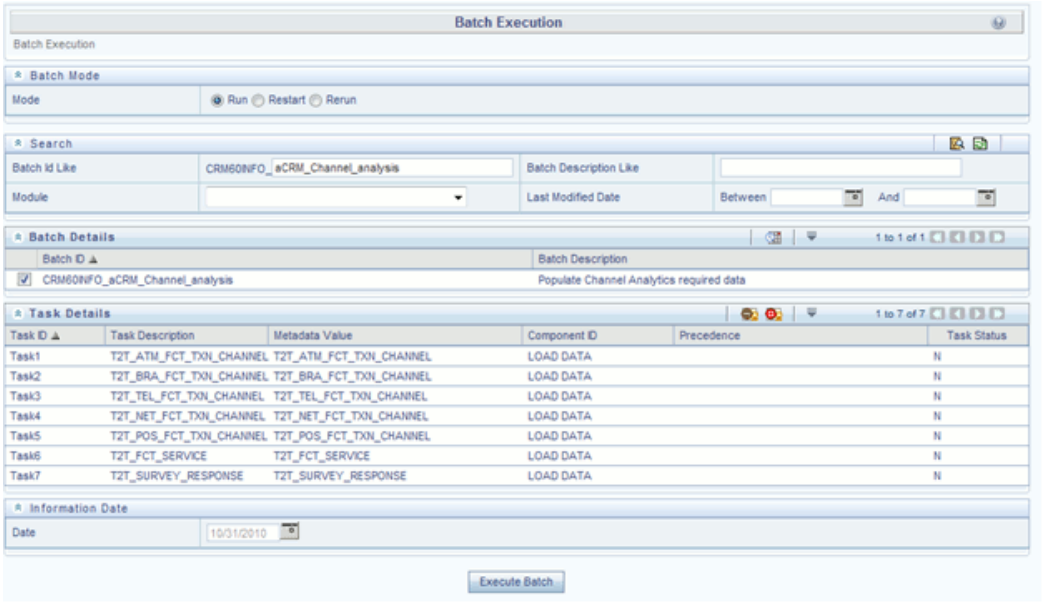
For identifying fields required in Stage Customer Master and Stage Customer Details for the purpose of Customer Insight Application(s), refer to *Download Specification*.

Executing the Fact Transaction Channel Population T2Ts

You can execute the T2T component from the *Operations* (formerly Information Command Center (ICC) framework) module of OFSAAI.

Define a new Batch and an underlying Task definition from the Batch Maintenance window of OFSAAI. For more information on defining a new Batch, refer to the section How to Define a Batch, page E-1.

A seeded batch, **<Infodom>_aCRM_Txn_Channel Task1 to Task5** has to be executed for the required MIS Date.



To define a new task for a Batch definition:

1. Select the check box adjacent to the newly created Batch Name in the *Batch Maintenance* window.
2. Click Add (+) button from the *Task Details* grid.

   The Task Definition window is displayed.
3. Enter the **Task ID** and **Description**.
4. Select **Load Data** component from the drop down list.
5. Select the following from the **Dynamic Parameters** list:
   - **Datastore Type** - Select the appropriate datastore type from the drop down list
   - **Datastore Name** - Select the appropriate datastore name from the drop down list
   - **IP address** - Select the IP address from the list
   - **Load Mode** - Select **Table to Table** from the list.
   - **Source Name** - Select **<T2T Source Name>** from the list.
   - **File Name** - Select the T2T name for the source stage channel table you want to process.

Data file name remains blank for any T2T Load mode.

Default value refers to currency calculation. If there is any need for currency conversion in T2T transactions, Default value has to be provided.

For example, if default value is [DRCY]='USD', [DLCY]='USD', here 'USD' acts as currency parameter to T2T.

6. Click **Save**.

   The Task definition is saved for the selected Batch.

You can execute a Batch definition from the *Batch Execution* section of *OFSAAI Operations* module.

Checking the Execution Status

The Batch execution status can be monitored through Batch Monitor section of OFSAAI Operations module.

The status messages in Batch Monitor are:

N - Not Started

O - On Going

F - Failure

S – Success

The execution log can be accessed on the application server in the directory *$FIC_DB_HOME/log/t2t*, where the file name will have the Batch Execution ID.

The following tables can be queried for errors:

- FCT_TXN_CHANNEL$

Fact Application

Fact Application entity stores the fact data of applications like application details, current stage, status, rejection reason, time-taken in each stage, and so on.

The following table lists the seeded T2T Definitions with related Source Table and Destination tables:

T2T Definition Name	Source Staging Table	Destination Table
T2T_FCT_APPLICATION	STG_APPLICATION	FCT_APPLICATION

To view the detailed structure of this table, refer to *Erwin Data Model*.

Prerequisites

Following are the lists of tables used in the population of Fact Application, and these tables are required to be loaded prior to running the T2T:

- DIM_DATES
- DIM_APPLICATION_TYPE
- DIM_PRODUCT
- DIM_CREDIT_OFFICER
- DIM_CUSTOMER
- DIM_CHANNEL
- DIM_CREDIT_CENTER
- DIM_DECISION_STATUS
- DIM_GEOGRAPHY
- DIM_INDUSTRY
- DIM_PROFESSION
- DIM_HOME_OWNERSHIP
- DIM_EDUCATION
- DIM_MARITAL_STATUS
- DIM_APPLICATION_REJECT_REASONS
- DIM_DEVIATION_REASONS
- DIM_SALES_REPRESENTATIVE
- DIM_CAMPAIGN
- DIM_ACCOUNT
- DIM_PROSPECT
- DIM_BANDS
- STG_APPLICATION

For details on populating dimension tables like DIM_CUSTOMER, DIM_BANDS, and so on, refer to the section Dimension Tables Population, under the chapter *Dimension Loading Process*.

For details on populating DIM_DATES dimension table, refer to the chapter Time Dimension Population, page 4-1.

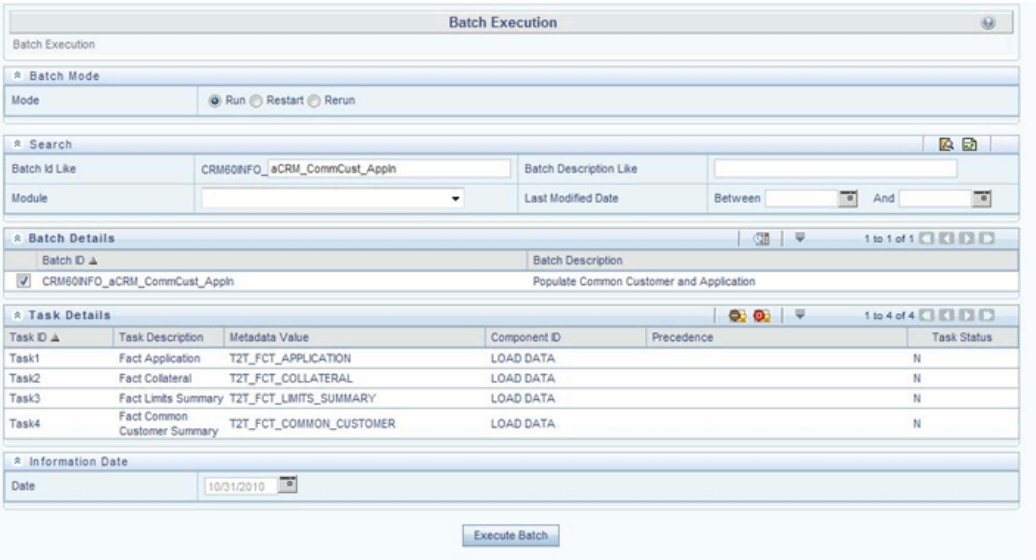
For identifying fields required in Channel Transaction tables in staging for the purpose of Customer Insight Application(s), refer to *Download Specification*.

Executing the Fact Application Population T2T

You can execute the T2T component from the *Operations* (formerly Information Command Center (ICC) framework) module of OFSAAI.

Define a new Batch and an underlying Task definition from the Batch Maintenance window of OFSAAI. For more information on defining a new Batch, refer to the section How to Define a Batch, page E-1.

A seeded batch, **<Infodom>_aCRM_CommCust_Appln – Task1** has to be executed for the required MIS Date.



To define a new task for a Batch definition:

1. Select the check box adjacent to the newly created Batch Name in the *Batch Maintenance* window.
2. Click Add (+) button from the *Task Details* grid.

   The Task Definition window is displayed.
3. Enter the **Task ID** and **Description**.

4. Select **Load Data** component from the drop down list.

5. Select the following from the **Dynamic Parameters** list:

   - **Datastore Type** - Select the appropriate datastore type from the drop down list
   - **Datastore Name** - Select the appropriate datastore name from the drop down list
   - **IP address** - Select the IP address from the list
   - **Load Mode** - Select **Table to Table** from the list.
   - **Source Name** - Select **<T2T Source Name>** from the list.
   - **File Name** - Select the T2T name "T2T_FCT_APPLICATION" to process.

     Data file name remains blank for any T2T Load mode.

     Default value refers to currency calculation. If there is any need for currency conversion in T2T transactions, Default value has to be provided.

     For example, if default value is [DRCY]='USD', [DLCY]='USD', here 'USD' acts as currency parameter to T2T.

6. Click **Save**.

   The Task definition is saved for the selected Batch.

You can execute a Batch definition from the *Batch Execution* section of *OFSAAI Operations* module.

Checking the Execution Status

The Batch execution status can be monitored through Batch Monitor section of OFSAAI Operations module.

The status messages in Batch Monitor are:

N - Not Started

O - On Going

F - Failure

S – Success

The execution log can be accessed on the application server in the directory *$FIC_DB_HOME/log/t2t*, where the file name will have the Batch Execution ID.

The following tables can be queried for errors:

- FCT_APPLICATION$

Fact Account Profitability

Fact Account Profitability entity stores fact data for reporting line items of revenue, costs, and expense related to each customer account. The data into this table is populated from other fact tables like FCT_COMMON_ACCOUNT_SUMMARY, FCT_PFT_ACCOUNT_SUMMARY, FCT_FTP_ACCOUNT_SUMMARY, FCT_REG_CAP_ACCOUNT_SUMMARY, and FCT_ECO_CAP_ACCOUNT_SUMMARY.

The following table lists the seeded Post Load Transformation Definition with related Source Table and Destination tables:

DT Definition Name	Source Tables	Destination Table
PFTBI_Acct_Reporting	FCT_COMMON_ACCOUNT_SUMMARY	FCT_ACCOUNT_PROFITABILITY
	FCT_PFT_ACCOUNT_SUMMARY	
	FCT_FTP_ACCOUNT_SUMMARY	
	FCT_REG_CAP_ACCOUNT_SUMMARY	
	FCT_ECO_CAP_ACCOUNT_SUMMARY	

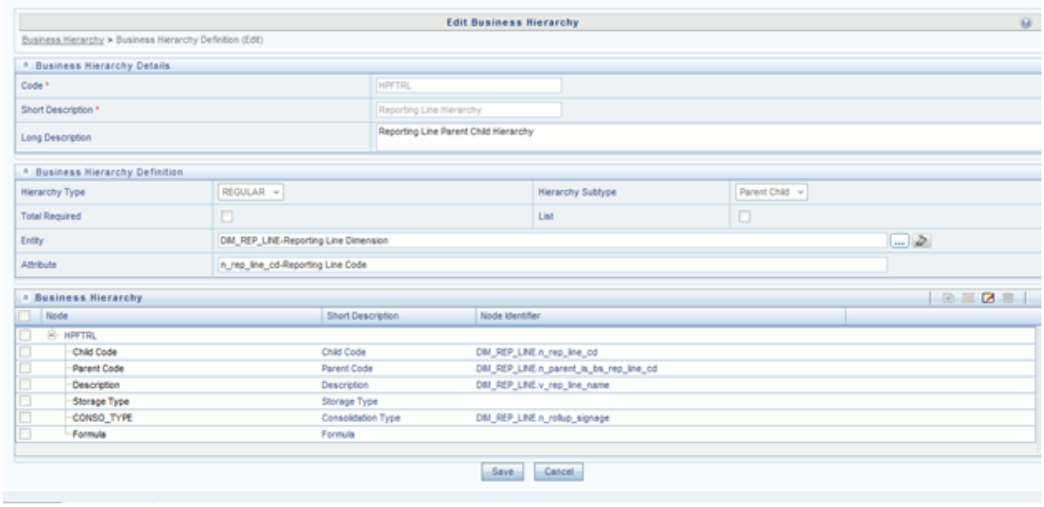
To view the detailed structure of the tables, refer to *Oracle Financial Services Analytical Applications Data Model Data Dictionary* or the *Erwin Data Model*.

Information from account summary fact tables are populated to Fact Account Profitability through a mapping process. Reporting line dimension is mapped to measures present in account summary. A PL/SQL procedure then populates the fact table by reading the mapping definition.

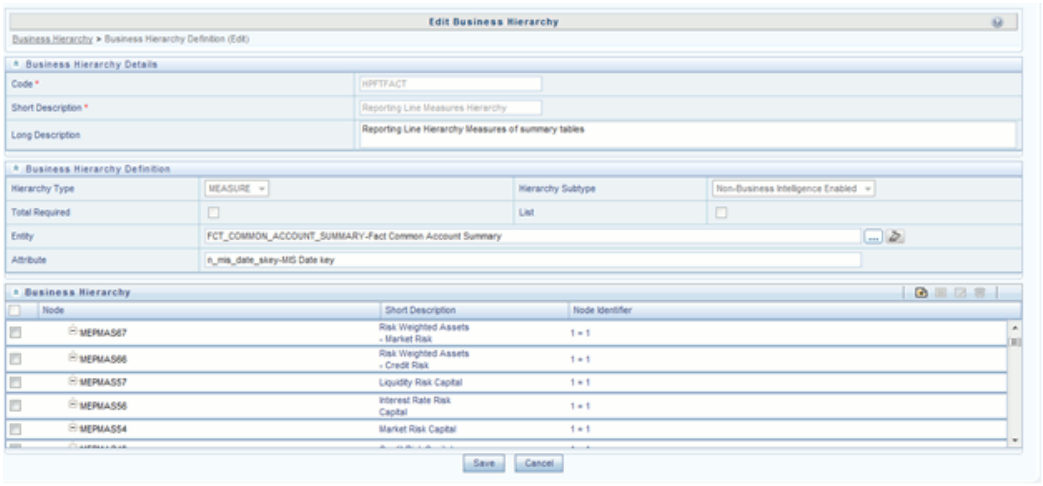
Reporting line dimension is created/maintained from Attribute Member Hierarchy Maintenance (AMHM) component of OFSAAI. A Reporting line item represents a revenue, costs, or expenses. Rollup signage is set as an attribute for a reporting line item. To know more about AMHM, refer to *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

The Account summary tables contain the revenue, costs, or expenses measures pertaining to an Account. Map Maintenance component of OFSAAI is used to map the measures of account summary tables (represented in a measure hierarchy) to reporting line hierarchy. A pre-defined mapping "Reporting Line Mapping" is seeded along with the application installer. Reporting Line Hierarchy and Reporting Line Measure

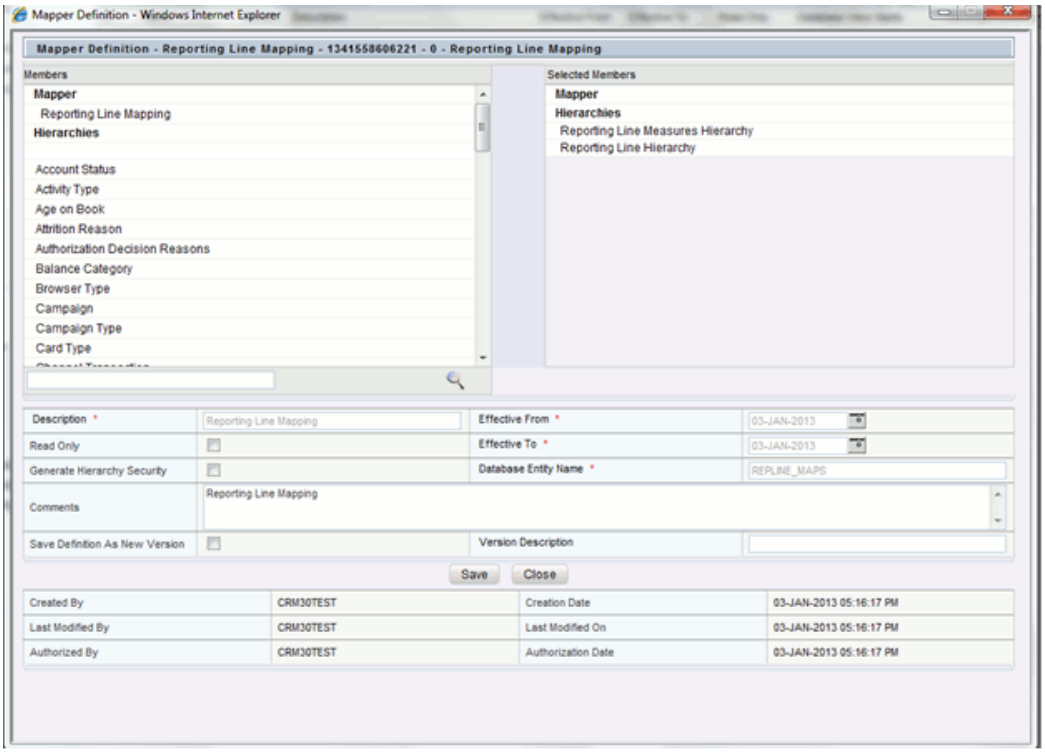
Hierarchy are the two hierarchies which are used for the mapping. Reporting Line Hierarchy is a parent child hierarchy which is based on Reporting Line Dimension entity.

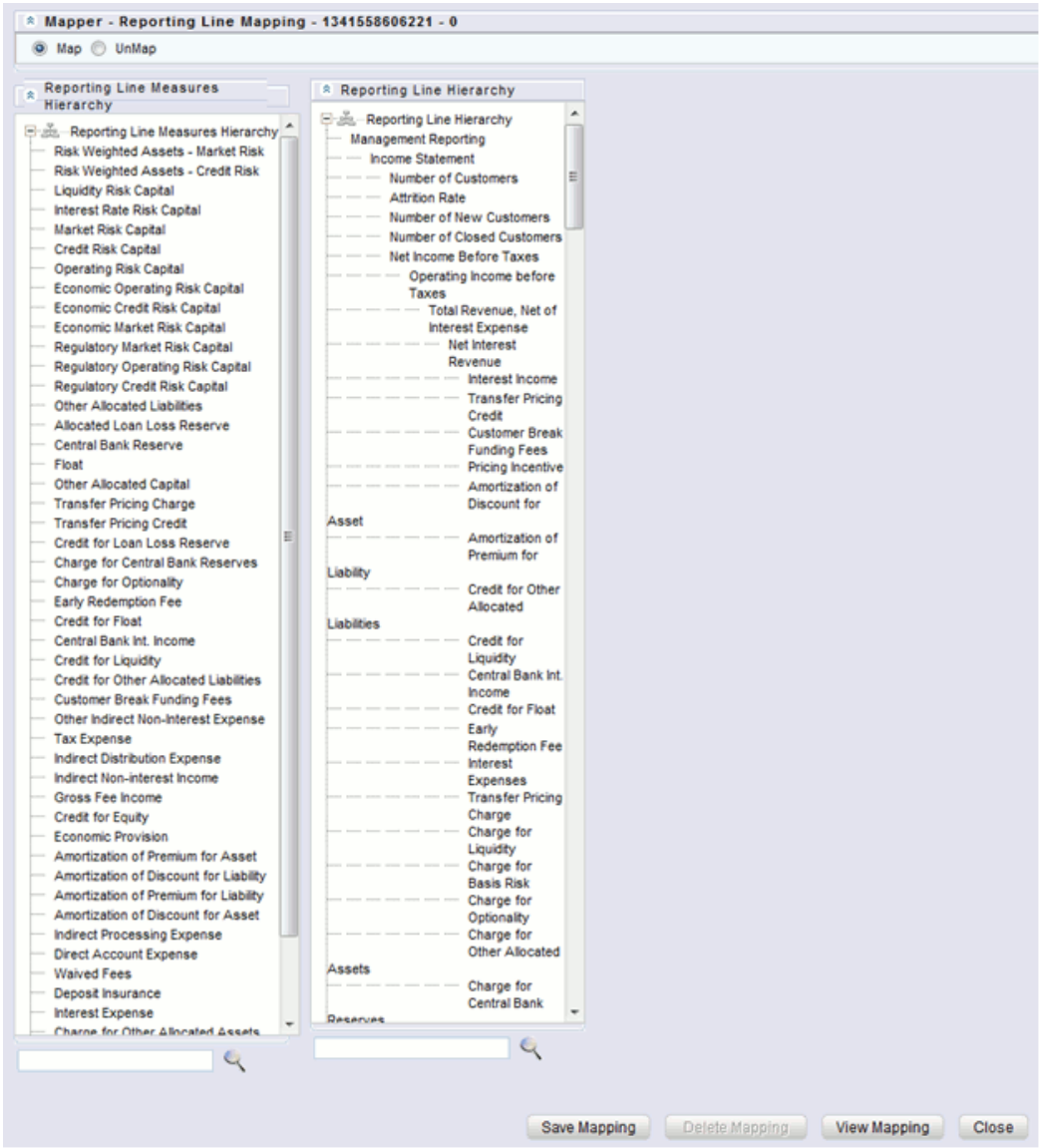


Reporting Line Measure hierarchy is a Non Business Intelligence Enabled Hierarchy which is based on measures from the Account Summary tables.



A seeded map is configured between the Reporting Line Hierarchy and Reporting Line Measure Hierarchy from Map Maintenance of OFSAAI.


Mapper Definition - Windows Internet Explorer
Mapper Definition - Reporting Line Mapping - 1341558606221 - 0 - Reporting Line Mapping
Members
Mapper
Reporting Line Mapping
Hierarchies
Account Status
Activity Type
Age on Book
Attrition Reason
Authorization Decision Reasons
Balance Category
Browser Type
Campaign
Campaign Type
Card Type
Selected Members
Mapper
Hierarchies
Reporting Line Measures Hierarchy
Reporting Line Hierarchy
Description *
Reporting Line Mapping
Effective From *
03-JAN-2013
Read Only
Effective To *
03-JAN-2013
Generate Hierarchy Security
Database Entity Name *
REPLINE_MAPS
Comments
Reporting Line Mapping
Save Definition As New Version
Version Description
Save
Close
Created By
CRM30TEST
Creation Date
03-JAN-2013 05:16:17 PM
Last Modified By
CRM30TEST
Last Modified On
03-JAN-2013 05:16:17 PM
Authorized By
CRM30TEST
Authorization Date
03-JAN-2013 05:16:17 PM



For more information on defining/maintaining Mapper, refer to *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

Steps to Define Mapping for Custom Reporting Line Items

Follow the below steps to define mapping for Custom Reporting Line items:

- Add Custom Reporting Line or Modify existing Reporting Line.
- Add Custom Reporting Line Hierarchy or modify existing seeded reporting line hierarchy.
- Execute the seeded Batch **<INFODOM>_ Repline_Dimension_Update** specifying

the Reporting line hierarchy as parameter to Batch.

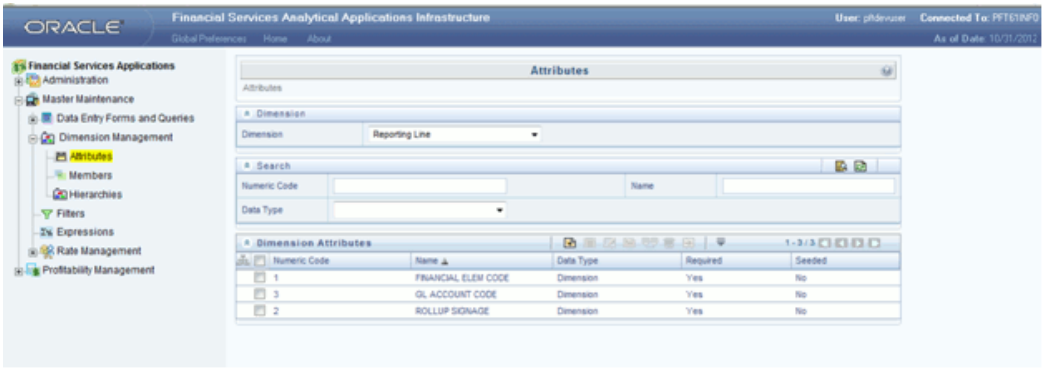
- Modify the seeded Business Metadata.
- Map Maintenance.

Add Custom Reporting Line or Modify existing Reporting Line

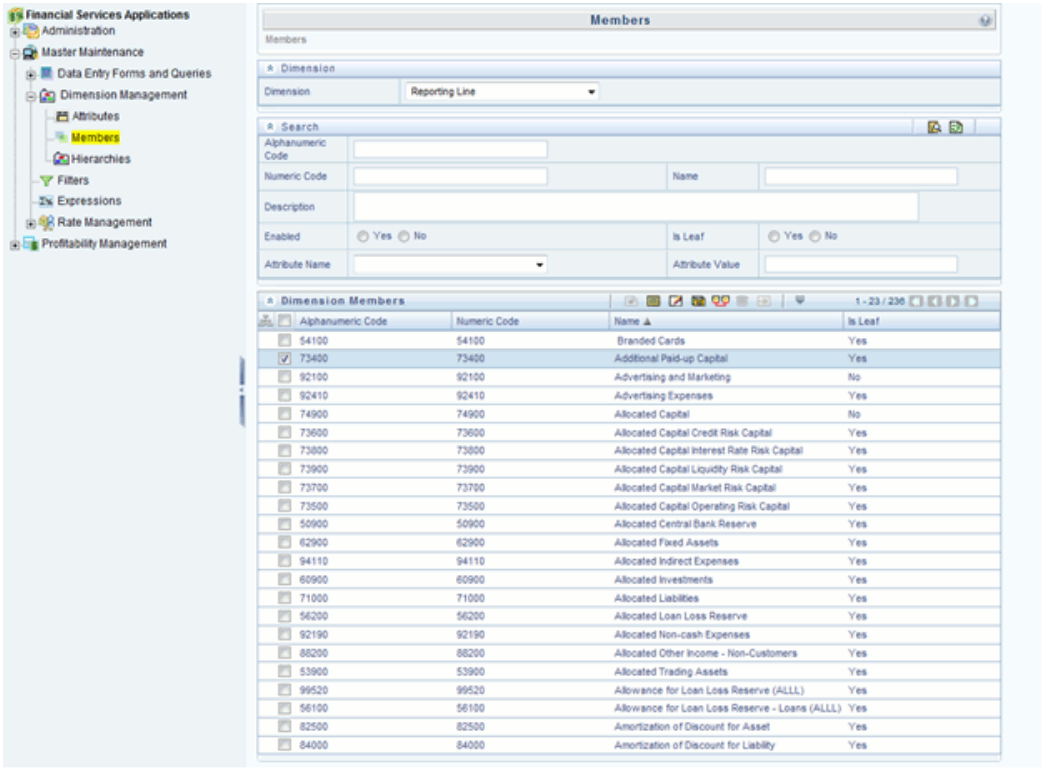
Custom Reporting Lines can be added or modified from AMHM.

Following are the seeded attributes of Reporting Line Dimension:

- Financial Element Code
- GL Account Code
- Rollup Signage



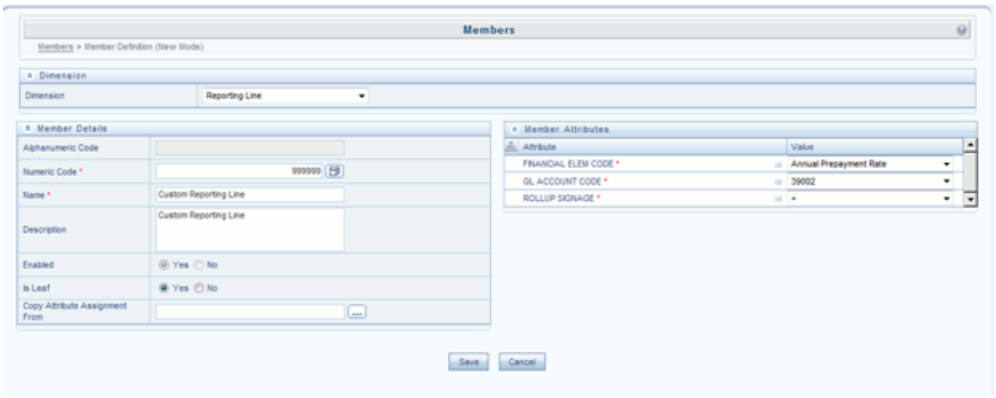
A Reporting line can be added or modified from the *Members* screen as shown below. To modify the existing reporting line, select the member by selecting the adjacent check box and select the **Edit** button on the menu bar.



To add a new reporting line:

1. Select **Add** button from the *Members* screen.

   The *Member Definition (New Mode)* screen is displayed.



2. In the *Member Definition (New Mode)* screen:

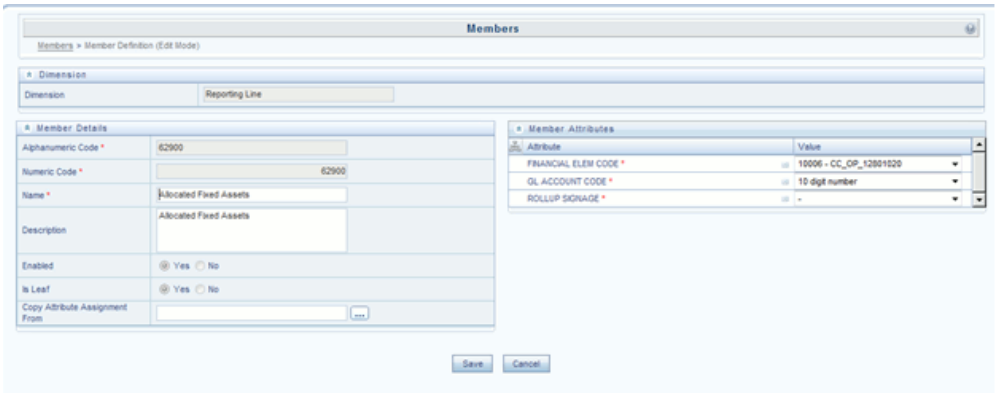
   - Enter **Numeric Code**.
   - Enter the **Name** of the custom reporting line.

- Enter the **Description** of the custom reporting line.
- Select Yes, if the custom reporting line has to be **Enabled** or not.
- Select Yes, if the custom reporting line **Is Leaf** or not.
- Select the Attributes for the reporting line member.
- Save the Member definition.

To modify a reporting line:

1. Click **Edit** button from the *Members* screen.

   The *Member Definition (Edit Mode)*screen is displayed.



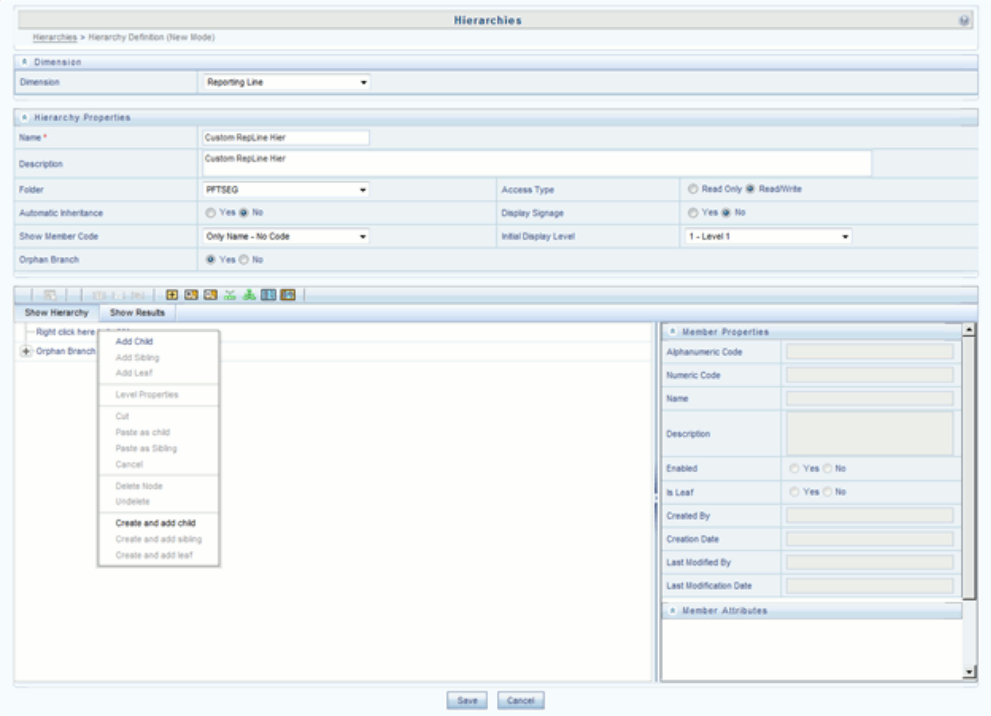
2. In the *Member Definition (Edit Mode)* screen, perform the following as required:
   - Modify the **Name** of the custom reporting line.
   - Modify the **Description** of the custom reporting line.
   - Modify the selection of the radio button in the **Enabled** field.
   - Modify the selection of the radio button in the **Is Leaf** field.
   - Modify the Attributes for the reporting line member.
   - Save the Member definition.

For more information, refer to *Oracle Financial Services Analytical Applications Infrastructure User Guide*

Add Custom Reporting Line Hierarchy or Modify Existing Seeded Reporting Line Hierarchy

To create a new Reporting Line Hierarchy:

1. Click **Add** button from the menu. The *Hierarchy Definition (New Mode)* screen is displayed.

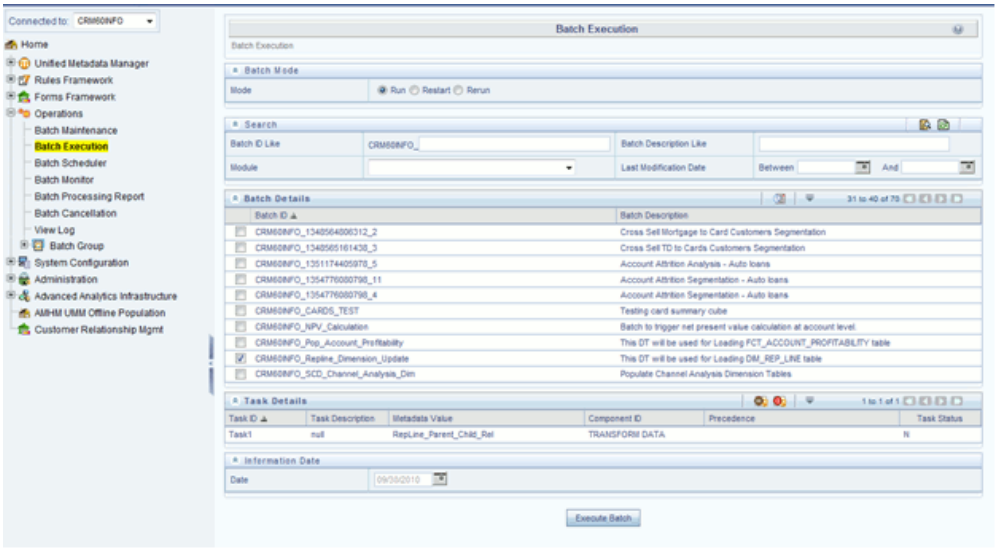


2. Enter the details in the required fields, and click **Save**.

> **Note:** Alternatively, insert scripts and update scripts can be prepared into tables DIM_REPORTING_LINE_B, DIM_REPORTING_LINE_TL, DIM_REPORTING_LINE_ATTR, and DIM_REPORTING_LINE_HIER for adding any new custom reporting lines or modifying an existing reporting line.

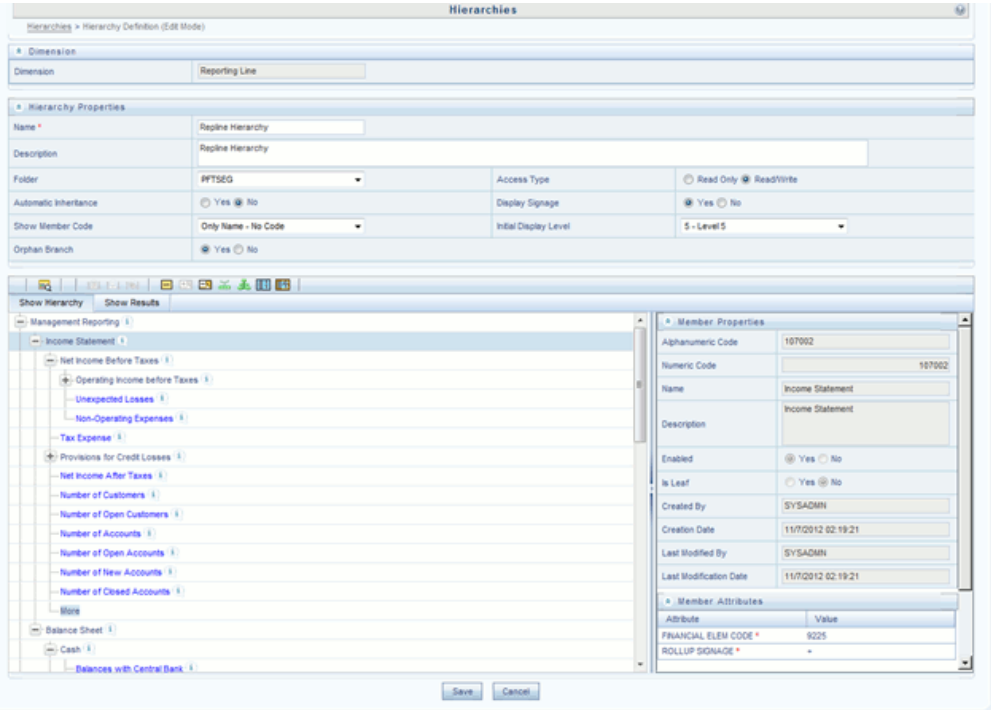
Execute the seeded batch **<Infodom>_ Repline_Dimension_Update** specifying the Reporting line hierarchy as parameter to batch.

Execute the seeded batch **<Infodom>_ Repline_Dimension_Update** . It populates data into DIM_REP_LINE table.



To modify existing seeded Reporting Line Hierarchy:

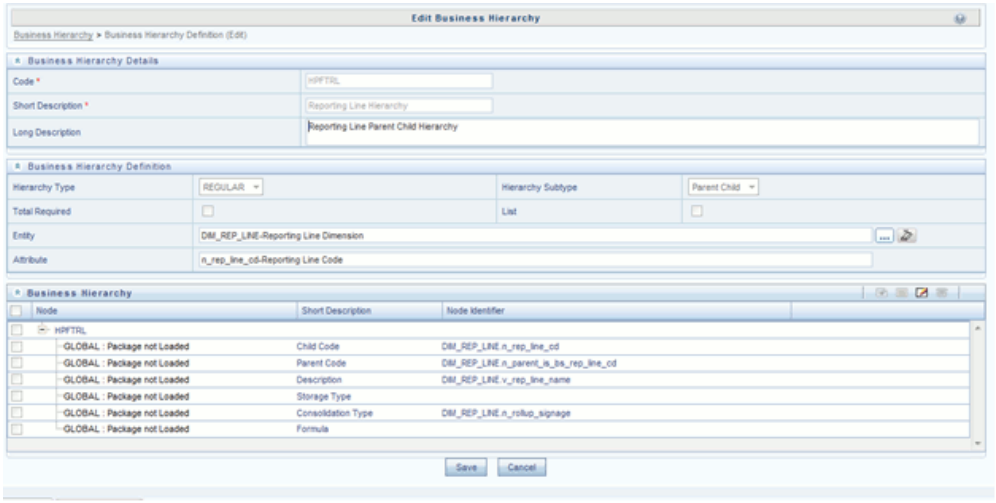
1. Select the check box adjacent to the Reporting Line Hierarchy to be modified.
2. Click **Edit** button from the menu.
3. Modify the Hierarchy as required and click **Save**.



For more information, refer to *Oracle Financial Services Analytical Applications Infrastructure User Guide*

Modify the Seeded Business Metadata

1. Resave the Seeded Business Metadata parent child hierarchy, "Reporting Line Hierarchy" (HPFTRL), so that the changes done are consolidated in the hierarchy as well.



2. (Optional) Create the Business Measures for the newly added reporting lines.

3. Attach and Save the defined Business Measures to the hierarchy "Reporting Line Measures".

4. Save the metadata.

For more information, refer to *Oracle Financial Services Analytical Applications Infrastructure User Guide*

Map Maintenance

Once all the above steps are done, the seeded map configured between the Reporting Line Hierarchy and Reporting Line Measure Hierarchy has to be modified if required from Map Maintenance of OFSAAI.

For more information, refer to *Oracle Financial Services Analytical Applications Infrastructure User Guide*

Prerequisites

Following are the lists of tables used in the population of Fact Account Profitability and these tables are required to be loaded prior to running the DT.

- DIM_DATES - Mandatory
- DIM_REP_LINE - Mandatory
- FCT_COMMON_ACCOUNT_SUMMARY
- FCT_PFT_ACCOUNT_SUMMARY

- FCT_FTP_ACCOUNT_SUMMARY
- FCT_REG_CAP_ACCOUNT_SUMMARY
- FCT_ECO_CAP_ACCOUNT_SUMMARY

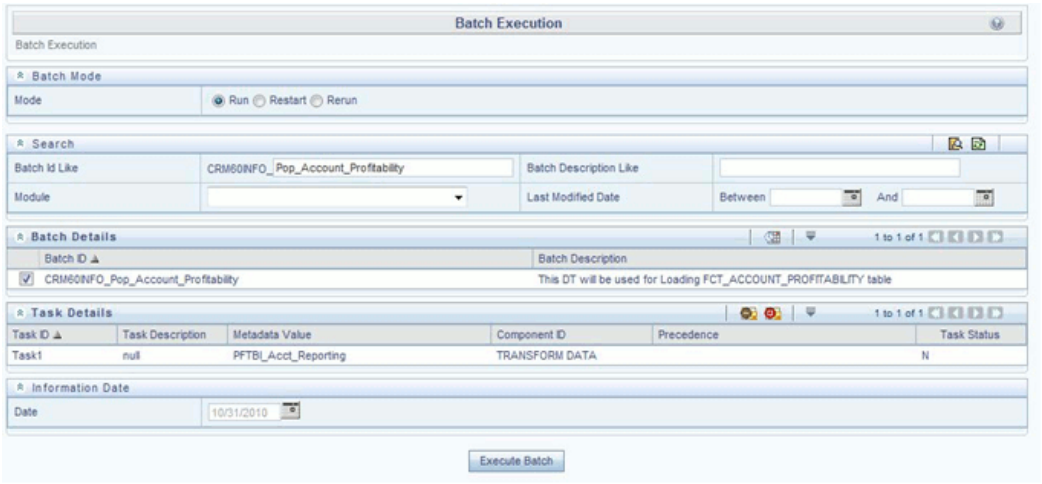
For more information on SCD, refer to the chapter Dimension Loading Process, .

Executing the Fact Account Profitability Population DT

You can execute the T2T component from the *Operations* (formerly Information Command Center (ICC) framework) module of OFSAAI.

Define a new Batch and an underlying Task definition from the Batch Maintenance window of OFSAAI. For more information on defining a new Batch, refer to the section How to Define a Batch, page E-1.

A seeded batch, **<Infodom>_Pop_Account_Profitability** has to be executed for the required MIS Date.



To define a new task for a Batch definition:

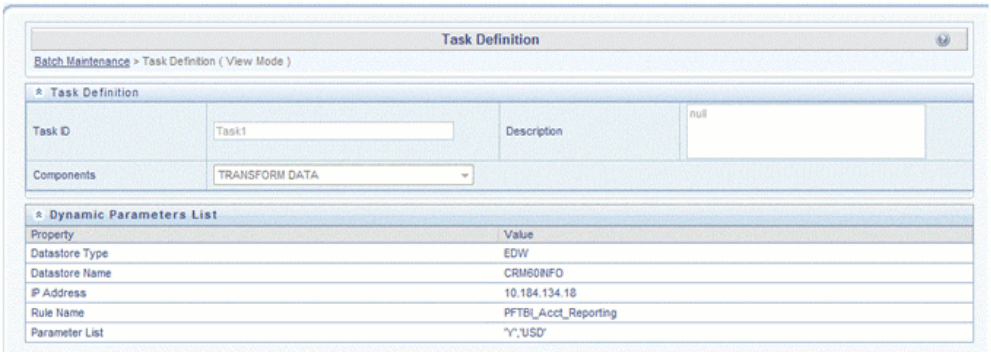
1. Select the check box adjacent to the newly created Batch Name in the *Batch Maintenance* window.
2. Click Add (+) button from the *Task Details* grid.

   The Task Definition window is displayed.
3. Enter the **Task ID** and **Description**.
4. Select **TRANSFORM DATA** component from the drop down list.

5. Select the following from the **Dynamic Parameters** list:
   - **Datastore Type** - Select the appropriate datastore type from the drop down list
   - **Datastore Name** - Select the appropriate datastore name from the drop down list
   - **IP address** - Select the IP address from the list
   - **Rule Name** - Select **FCT_ACCT_TRANSFORMATION** from the list.
6. Enter the Parameter List details as mentioned below:
   - **Reload Account Profitability table for the given MIS Date flag** - can be Y or N within single quotes.
   - **Reporting Currency Code** - This has to be enclosed within single quotes.

   For Example, if reporting currency is in US Dollar, then '**USD**' has to be specified.

   > **Note: Batch run ID** and **As Of Date** are passed internally by the batch to the Data Transformation task.



7. Click **Save**.

   The Task definition is saved for the selected Batch.

You can execute a Batch definition from the *Batch Execution* section of *OFSAAI Operations* module.

Checking the Execution Status

The Batch execution status can be monitored through Batch Monitor section of OFSAAI

Operations module.

The status messages in Batch Monitor are:

N - Not Started

O - On Going

F - Failure

S – Success

The execution log can be accessed on the application server in the directory *$FIC_DB_HOME/log/date*, where the file name will have the Batch Execution ID.

10

Cube Build Process

Introduction

Reports of OFSRPA application can be configured to work on Relational database or Essbase cubes. Source of data for the reports is determined by the priority set for each Logical Table Source (LTS) in OBIEE RPD. Multi-dimensional databases store aggregated data for better performance and provide mechanisms for performing non-additive rollup within a hierarchy and defining complex derived measures using cross-dimensional operations. OFSAA Infrastructure is used for defining metadata about the cube and for building the cubes. Cubes are optional source of data for Retail Performance application.

The chapter contains the following sections:

- List of cubes seeded within the application
- Process for building cubes

Overview of Cubes

OFSRPA application has the following seeded cubes:

- Retail Analysis
  - Purpose

    The purpose of this cube is to provide analysis of various Account related measures across dimensions like Product, Line of Business, Vintage, and so on.

  - Dataset

    This cube is based on the FCT_COMMON_ACCOUNT_SUMMARY and FCT_CRM_ACCOUNT_SUMMARY fact tables.

- Customer Summary
  - Purpose

    The purpose of this cube is to provide analysis of various Customer related measures across customer profile dimensions like Income Band, Age, and so on.

  - Dataset

    This cube is based on the FCT_COMMON_CUSTOMER_SUMMARY and FCT_CRM_CUSTOMER_SUMMARY fact tables.

- Cards Balance Summary
  - Purpose

    The purpose of this cube is to provide analysis of various Cards Balance Category related measures across dimensions like Time, Customer Profile by Income, Age, Gender Age on Book, Vintage, and so on.

  - Dataset

    This cube is based on the FCT_CARDS_BALANCE_SUMMARY fact table.

- Account Profitability
  - Purpose

    The purpose of this cube is to provide analysis of Financial Reporting Lines related measures across dimensions like Time, Line of Business, Customer Profile by Income, Age, Gender Age on Book, Vintage, and so on.

  - Dataset

    This cube is based on the FCT_ACCOUNT_PROFITABILITY, FCT_COMMON_ACCOUNT_SUMMARY, FCT_CRM_ACCOUNT_SUMMARY, FCT_COMMON_CUSTOMER_SUMMARY, and Fct_CRM_Customer_SUMMARY fact tables.

- RM PnL Cube for RPA
  - Purpose

    The purpose of this cube is to provide details of Profit and Loss statement of a Relationship Manager across dimensions like Line of Business, Product, Organizational Unit, and so on.

  - Dataset

    This cube is based on the FCT_ACCOUNT_PROFITAIBILTY and

FCT_ACCOUNT_MGR_REL fact tables.

If there is an error with the Relationship Manager cube saving or execution for the first time after the installation, the parent child hierarchies must be saved by editing the hierarchies individually and re-saving them after which the cube needs to be saved successfully and re-executed.

Creating Configuration Files

Each cube has a configuration file that contains the details of dimensions and measures which are part of the cube. Essbase outline is created using the configuration file. Configuration files for seeded cubes are available as part of the installer. However, if there are any changes to cube definition then configuration files are recreated during saving of the cube definition.

Follow these steps:

1. On the LHS menu of OFSAAI, go to **Home > Unified Metadata Manager > Business Metadata Management > Cubes**.
2. Click **Search** and check if you can see the cubes in the pop up window that opens.
3. Click on the cube that needs to be built and click **OK** to return to the *Cube Definition* Screen.
4. Click **Save** to save the cube. A pop up appears saying 'Operation Successful'.

> **Note:** Cube definition will be saved only when the UI component detects any change event. In order to trigger the change event, type a blank space in 'Long Description' text-box and remove the same. Or a dimension can be removed from selected list, again the same dimension re-selected, variation applied for the dimension, and saved.

Building Of Cubes

The Cube build process in OFSAA Infrastructure contains the following steps:

- Generating an aggregate DATA file containing the measure values for each dimension leaf that are part of the cube definition. This is performed by the **AGGREGATE DATA** component task within the batch definition.
- Creating the cube outline on Essbase server. This is performed by the **CREATE CUBE** component task within the batch definition.

- Loading the data to the cube. This is performed by the **CREATE CUBE** task within the batch definition.

This section covers the following topics:

- Prerequisites
- Tables used by the Cube build component
- Executing the Cube build task
- Checking the execution status

Prerequisites

The following are prerequisites for creating a cube:

- All the post install steps mentioned in the OFSAA Infrastructure installation guide & Solution installation manual have been completed successfully.
- Parentage files need to be created for BI hierarchies after dimension data is loaded. 'Resave Metadata' process is used to create the parentage files.
- OFSAAI application user needs to have the required functions mapped to the user for doing Resave Metadata and accessing the Home> Unified Metadata Manager > Business Metadata Management screens and executing a batch from Application batch operations screen.
- Execute Save Metadata by navigating to the following screen on the OFSAAI framework LHS Menu.
- Go to Home > Administration > Save Metadata.
- Choose all the available metadata under Hierarchy and move it to the right by using the '>>' button.
- Click Save and might take a few minutes for the saving to complete.
- Click Show Details to view the log for the Save operation.

  Refer to System Configuration & Administration chapters in OFSAAI User Manual for details on the Resave metadata feature. Saving metadata creates all the parentage files required for building cubes.
- Ensure that the following services are running on the application server before doing a cube build:
  - Iccserver

- Router
- AM
- Messageserver
- Olapdataserver

- Batches need to be created for executing, which is explained in the Executing the Cube build section.
- All the required tables for dataset need to be populated before you execute the cube batches, such as Dimension Population, Time Dimension population, Account Summary Population, and Fact Ledger Population.
- The dataset for the cube should return some rows in the database for the cube build to happen.

  To check the same, perform the following steps:

  - Navigate to Home > Unified Metadata Manager > Business Metadata Management > Data Sets.
  - Click Search
  - Click any dataset in the pop up which opens and click OK to return to the data set screen.
  - Click the button on right of ANSI Join text box. Enter the required expression or click the below button to define an expression using the Expression screen.
  - Click OK to return to the data set screen.

    For more information, refer to *Create Expression* section in *OFSAA Infrastructure User Guide*.

- Perform the same for Join/Filter Condition and Date filter.
- Frame a SQL query like this:

  ```
  SELECT COUNT(1) FROM <ENTER THE PART YOU OBTAINED FROM ANSI JOIN
  PART ABOVE>WHERE<ENTER THE PART YOU OBTAINED FROM JOIN/FILTER
  CONDITION & DATE FILTER PARTS>
  ```

  This query should show record count greater than zero when you fire this from SQL prompt in the database.

Tables Used by the Cube Build Component

Tables that are part of the dataset need to be populated before executing the cube build

component. In addition, REV_BIHIER table in atomic database schema stores the hierarchy data for Business Intelligence-enabled hierarchies for cube build. This table gets populated when a hierarchy is saved using *Save Metadata* screen.

Executing the Cube Build Task

To execute the cube build process from OFSAAI ICC framework (accessed through the application Batch Operations screen), create a new Batch with two tasks – one for performing Data crunching (component is Aggregate Data) operations and another for building cube (component is Build Cube). The above batch needs to be created for each of the cubes.

- Aggregate Data Task
    - From OFSAAI Home menu, select Operations > Batch Maintenance.
    - Click New Batch ('+' symbol in Batch Name container) and enter the Batch Name and Description.
    - Click Save.
    - Select the Batch you created in the earlier step by clicking on the check box in the Batch Name container.
    - Click New Task ('+' symbol in Task Details container).
    - Enter the Task ID and Description.
    - In the Component drop down, choose Aggregate Data.
    - Select the following from the Dynamic Parameters List and then click Save:
        - Datastore Type - Select the appropriate datastore from the list.
        - Datastore Name - Select the appropriate name from the list.
        - IP address - Select the IP address from the list.
        - Cube Parameter - Choose the cube code to be built from the drop down list.
        - Operation - Choose All from the drop down list.

- Create Cube Task
    - In the batch created in Aggregate Data task above, click New Task ('+' symbol in Task Details container).
    - Enter the Task ID and Description.

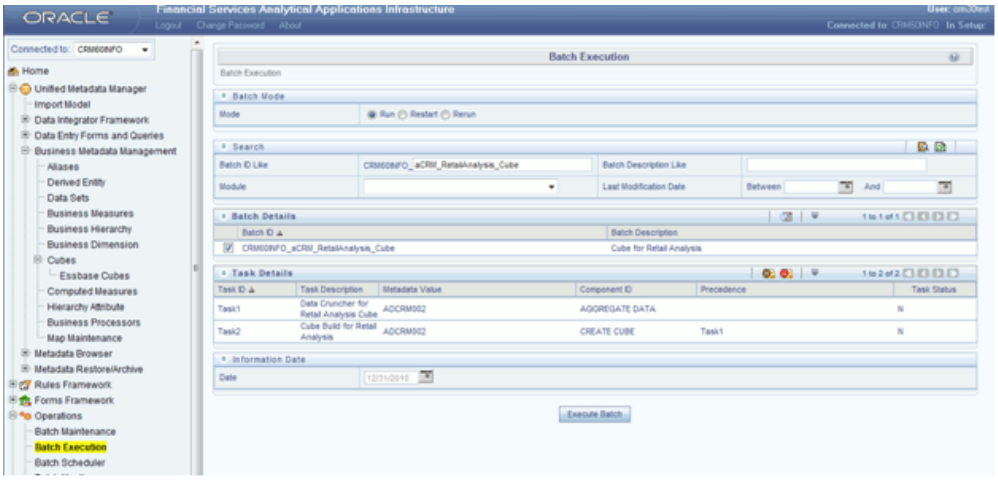
- In the Component drop down, choose Create Cube.
- the following from the Dynamic Parameters List and then click Save:
  - Datastore Type - Select the appropriate datastore from the list.
  - Datastore Name - Select the appropriate name from the list.
  - IP address - Select the IP address from the list.
  - Cube Parameter - Choose the cube code to be built from the drop down list.
  - Operation - Choose All from the drop down list.
- Execute the batch created in the above step.

  Note: A common issue in the Aggregate task is Data Set not having records for which the steps mentioned in the prerequisites have to followed or the SQL query in Data Cruncher log file has to be checked on the database (Location of log file mentioned in the 'Checking the Execution Status' section below). In the Create Cube task one common error is the hierarchy member being the same for two different dimensions which are part of the same cube (Error message: 'Duplicate Alias' in the Create Cube log file). In this case, you can try appending a string to the Hierarchy member code so that it is unique across the cube or changing the hierarchy data to make the node unique across the cube.

Seeded batches are provided along with the RPA application installer. The below described are the OFSRPA seeded batches:

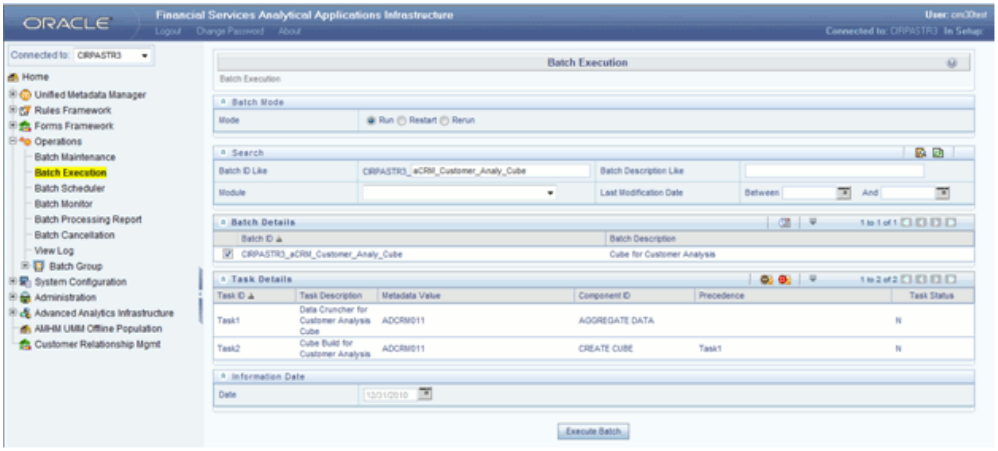
- Retail Analysis

  Seeded batch **<INFODOM>_aCRM_RetailAnalysis_Cube** is provided with the installer. Execute the batch for the required MIS Date.



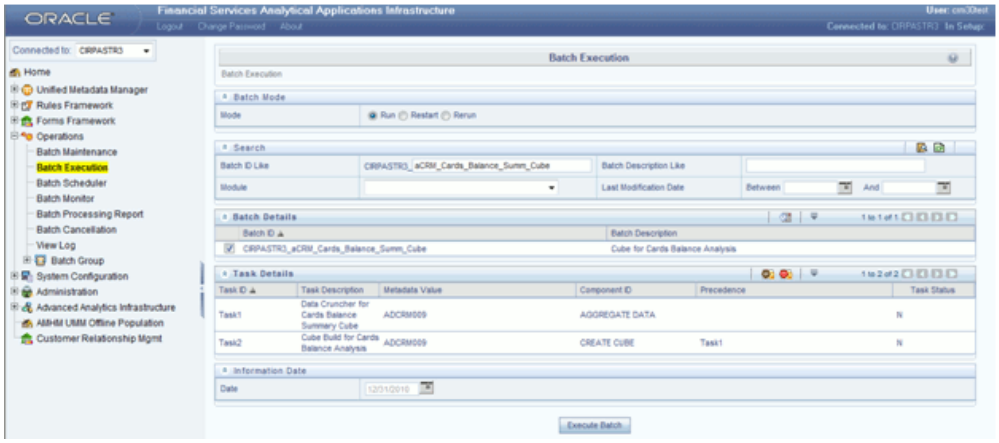
- Customer Summary

  Seeded batch **<INFODOM>_aCRM_Customer_Analy_Cube** is provided with the installer. Execute the batch for the required MIS Date.



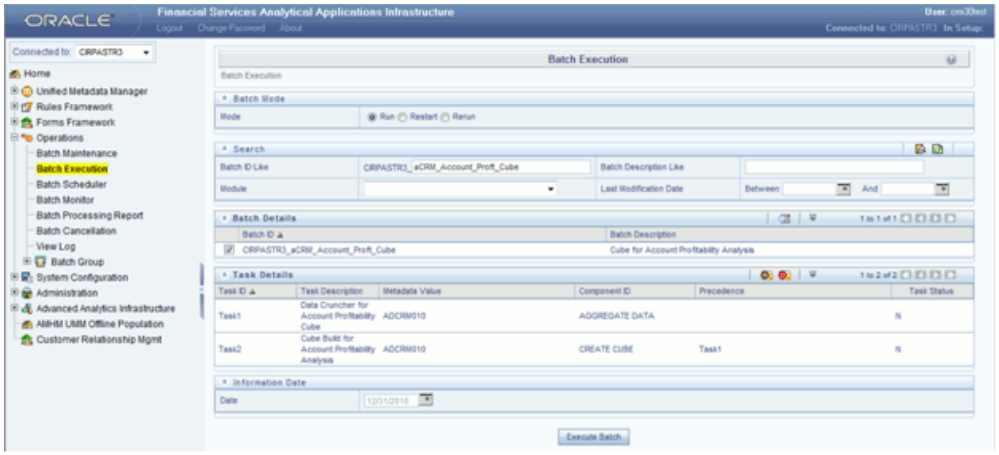
- Cards Balance Summary

  Seeded batch **<INFODOM>_aCRM_Cards_Balance_Summ_Cube** is provided with the installer. Execute the batch for the required MIS Date.



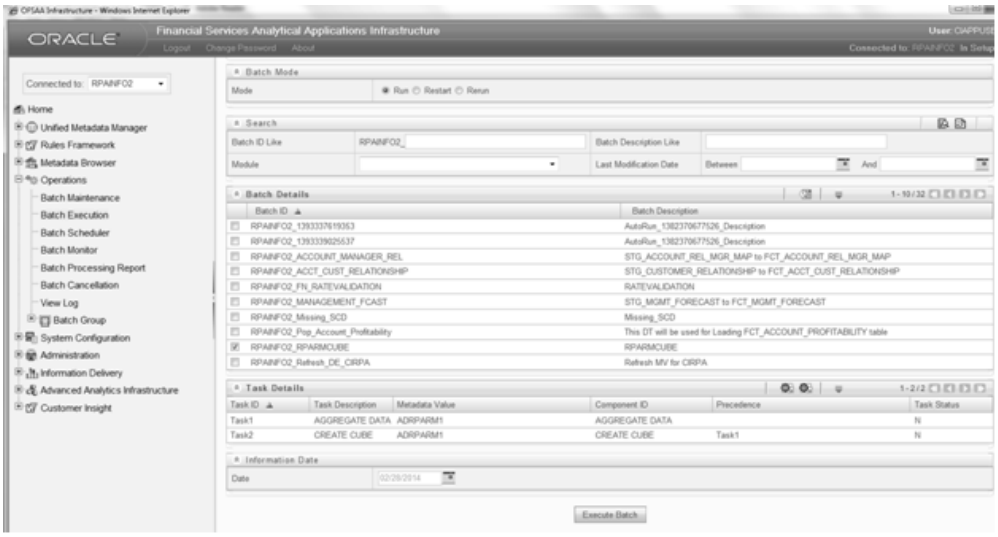
- Account Profitability

  Seeded batch **<INFODOM>_aCRM_Account_Proft_Cube** is provided with the installer. Execute the batch for the required MIS Date.



- RM PnL Cube for RPA

  Seeded batch <INFODOM>_RPARMCUBE is provided with the installer. Execute the batch for the required MIS Date.



Checking the Execution Status

The status of execution can be monitored using the *Batch Monitor* screen. From OFSAAI Home menu, select Operations > Batch Monitor.

> **Note:** For a more comprehensive coverage of configuration and execution of a batch, refer to *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

The status messages in Batch Monitor are:

- N - Not Started
- O - On Going
- F - Failure
- S – Success

The execution log can be accessed on the application server in the directory *$FIC_DB_HOME/log/dc* for the Task 1 above (Aggregate Data). The file name will have the Batch Execution ID.

The execution log can be accessed on the application server by going to the following directory *$FIC_DB_HOME/log/olap* for the Task 2 above (Create Cube). The file name will have the Batch Execution ID.

> **Note:** Refer to Appendix on how to add a New cube or modifying existing ones. For any new cube added using the OFSAAI framework

Cube screen , the tasks for execution are the same as mentioned above.

11

Overview of OFSRPA Reports

Introduction to Dashboards

Oracle Financial Services Retail Performance Analytics (OFSRPA) offers dashboards to users that organize different kinds of reports by subject area.

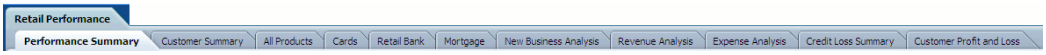
These reports provide the following:

- Gain deep insight into customer engagements across target segments and products/LOB including lending, credit cards, and so on.
- Perform Wallet share analysis and Customer Profitability.
- Understand the efficiency of investments (like marketing, branch, and channel and so on) over time.
- Monitor customer distribution across credit and delinquency bands and related exposures.
- Perform an enterprise-wide revenue analysis across customer segments, products, and reporting lines including fee income, interest, and interchange.
- Summary performance of the LOBs, overall Profitability, and Portfolio mix.
- Customer trends across performance drivers like Sales, Balances, Deposits, Product subscriptions (revenue services), Credit scores, Delinquency bands, Losses, and so on.
- LOB specific performance reports can be analyzed against key dimensions like customer segments, product family, region, branch, risk scores, and so on.
- Analyze expenses across customer segments, products, and channels to understand ROI.

Dashboards

Following tabs are present in the Retail Performance dashboard:

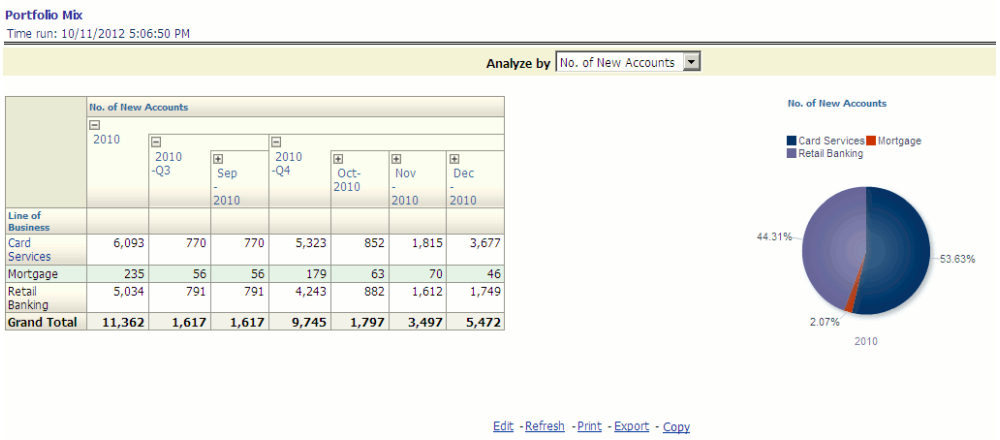
- **Performance Summary**
- **Customer Summary**
- **All Products**
- **Cards**
- **Retail Bank**
- **Mortgage**
- **New Business Analysis**
- **Revenue Analysis**
- **Expense Analysis**
- **Credit Loss Summary**
- **Customer Profit and Loss**



Performance Summary

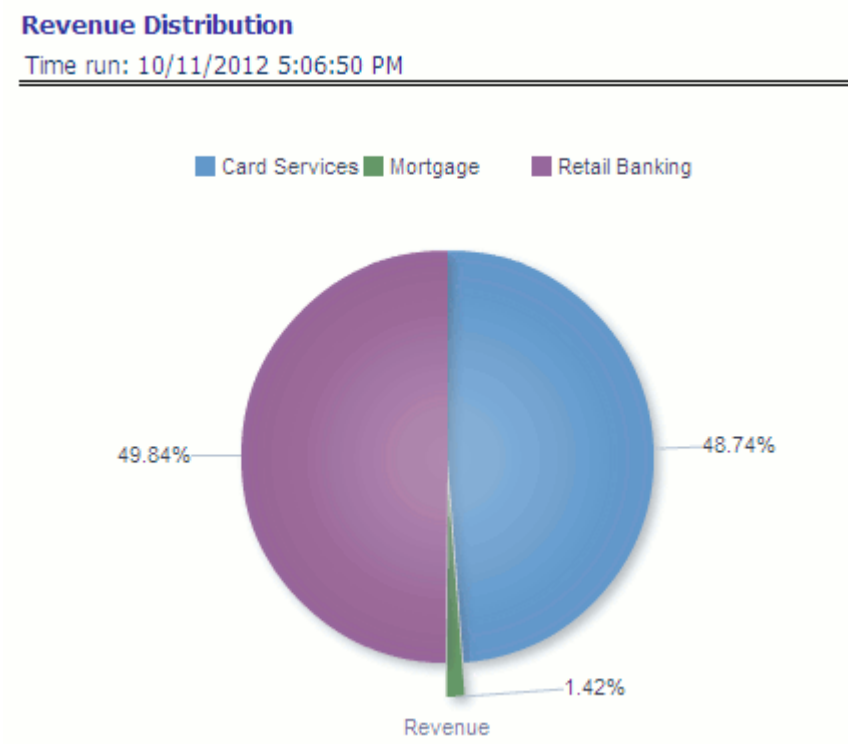
- Portfolio Mix

  This report displays growth of key metrices such as No. of New Accounts, No. of New Customers, End of Period balance, and Sales across various Lines of Businesses within the bank.



- Revenue Distribution

  This report provides the Revenue spread across the different Lines of Businesses within the bank.



- Cross LOB Holding

  This report outlines the product holding patterns of bank customers across Lines of Business. It shows the relationships the customer has across the enterprise.

Cross LOB Holding

Time run: 12/6/2012 3:46:16 PM

			No. of Open Customers			
			Card Services	Corporate Centre	Mortgage	Retail Banking
Time	Geography	Line of Business				
⊞ 2010	⊞ Total	Card Services	36,588			13
		Corporate Centre		29,358		88
		Mortgage			1,932	1,722
		Retail Banking	13	88	1,722	37,914

Refresh - Print - Export - Copy

- Top 10 Products by Customers and Revenue

  This report outlines the top 10 products ranked by Number of Customers or Revenue.

Top 10 Products by Customers and Revenue

Time run: 10/11/2012 5:06:50 PM

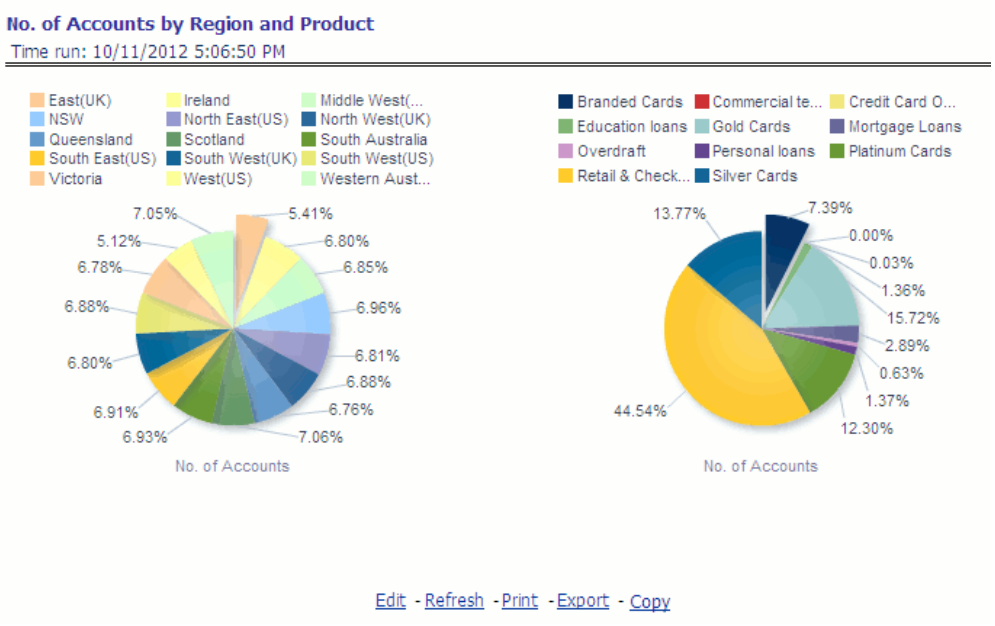
Amount in Millions (USD)

			No. of Open Customers	Revenue	% of Revenue
Time	Line of Business	Product			
⊞ 2010	Retail Banking	Retail & Checking Accounts	30,978	20.65	45.2%
		Mortgage Loans	1,175	0.66	1.4%
		Personal loans	1,010	0.59	1.3%
		Education loans	1,002	0.60	1.3%
		Overdraft	472	0.27	0.6%
	Card Services	Gold Cards	10,497	7.03	15.4%
		Silver Cards	9,068	6.27	13.7%
		Platinum Cards	8,077	5.67	12.4%
		Branded Cards	4,415	3.32	7.3%
	Mortgage	Mortgage Loans	972	0.65	1.4%

Edit - Refresh - Print - Export - Copy

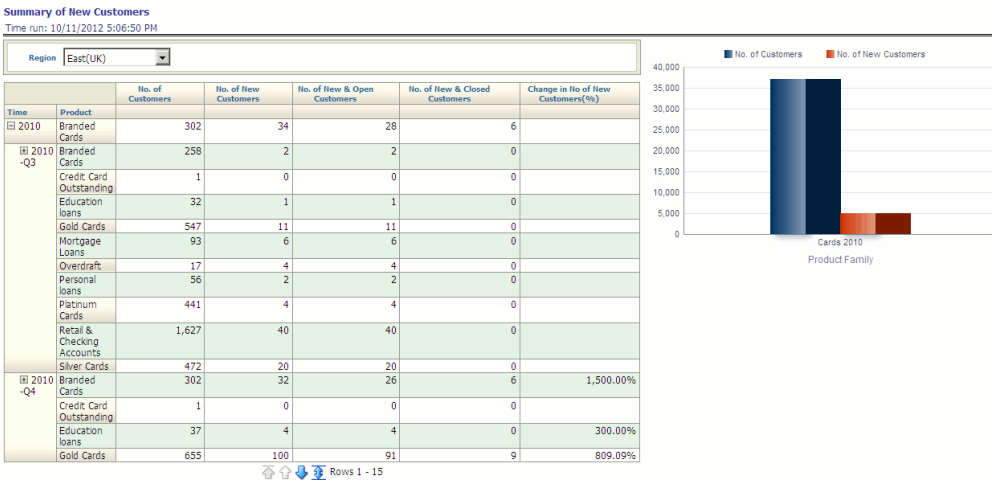
- No. of Accounts by Region and Product

  This report displays the concentration of Accounts across various Regions and Products within the bank.



- Summary of New Customers

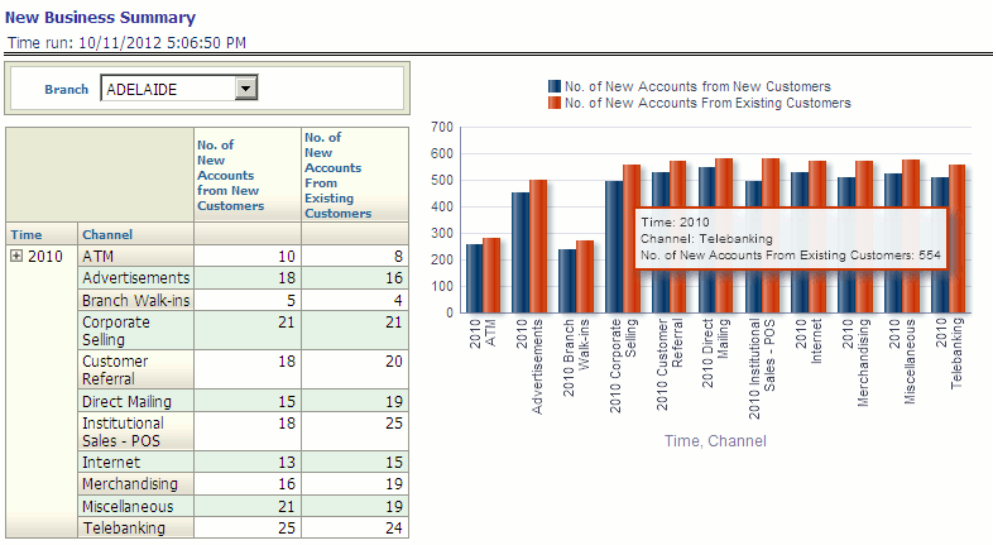
  This report displays the growth in customer base across the various products over time.



Time	Product	No. of Customers	No. of New Customers	No. of New & Open Customers	No. of New & Closed Customers	Change in No of New Customers(%)
2010	Branded Cards	302	34	28	6	
2010 -Q3	Branded Cards	258	2	2	0	
	Credit Card Outstanding	1	0	0	0	
	Education loans	32	1	1	0	
	Gold Cards	547	11	11	0	
	Mortgage Loans	93	6	6	0	
	Overdraft	17	4	4	0	
	Personal loans	56	2	2	0	
	Platinum Cards	441	4	4	0	
	Retail & Checking Accounts	1,627	40	40	0	
	Silver Cards	472	20	20	0	
2010 -Q4	Branded Cards	302	32	26	6	1,500.00%
	Credit Card Outstanding	1	0	0	0	
	Education loans	37	4	4	0	300.00%
	Gold Cards	655	100	91	9	809.09%

- New Business Summary by Channel

  This report displays summary of new accounts opened across various bank channels.



Time	Channel	No. of New Accounts from New Customers	No. of New Accounts From Existing Customers
⊞ 2010	ATM	10	8
	Advertisements	18	16
	Branch Walk-ins	5	4
	Corporate Selling	21	21
	Customer Referral	18	20
	Direct Mailing	15	19
	Institutional Sales - POS	18	25
	Internet	13	15
	Merchandising	16	19
	Miscellaneous	21	19
	Telebanking	25	24

- New Business Summary by Product

  This report displays summary of new customers on-boarded by product.

New Business Summary by Product

Time run: 12/10/2012 6:38:48 PM

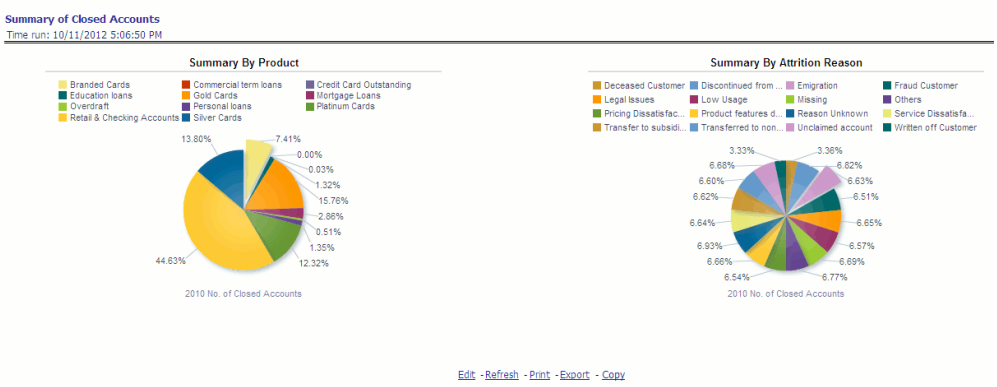
Amount in Millions (USD)

Time	Geography	Product	No. of New Accounts	No. of New Customers	Credit Balance - New Customers	Debit Balance - New Customers
⊞ 2010	⊞ Total	Branded Cards	903	631	5.58	
		Commercial term loans	1	0		
		Credit Card Outstanding	4	4	0.04	
		Education loans	244	169	1.63	
		Fixed Rate Deposit	828	394		5.25
		Floating Rate Deposit	863	385		5.32
		Gold Cards	2,065	1,848	17.97	
		Mortgage Loans	481	375	7.44	
		Overdraft	156	139	0.37	
		Personal loans	298	218	1.11	
		Platinum Cards	1,153	906	8.27	
		Recurring Deposit	852	367		4.24
		Retail & Checking Accounts	4,085	3,460		
		Silver Cards	1,972	1,717	7.74	

Refresh -Print -Export - Copy

- Summary of Closed Accounts

  This report displays accounts closed as a distribution across product and attrition reason.



Customer Summary

- Customer Distribution by LoB

  This report displays Distribution of Open Customers and the corresponding Revenue across each Line of Business and its constituent products.

Customer Distribution by LoB

Time run: 10/11/2012 5:06:50 PM

Amount in Millions (USD)

Region: East(UK)

			No.of Open Customers	% of No. of Open Customers	Revenue	% of Revenue
Time	Line of Business	Product				
⊞ 2010	Card Services	Branded Cards	229	6.2%	0.17	7.0%
		Gold Cards	582	15.9%	0.38	15.7%
		Platinum Cards	445	12.1%	0.31	12.4%
		Silver Cards	500	13.6%	0.34	13.9%
	Mortgage	Mortgage Loans	51	1.4%	0.03	1.4%
	Retail Banking	Credit Card Outstanding	1	0.0%	0.00	0.0%
		Education loans	37	1.0%	0.02	0.8%
		Mortgage Loans	66	1.8%	0.03	1.4%
		Overdraft	23	0.6%	0.01	0.5%
		Personal loans	68	1.9%	0.04	1.8%
		Retail & Checking Accounts	1,668	45.4%	1.10	45.0%
Grand Total			**3,670**	**100.0%**	**2.46**	**100.0%**

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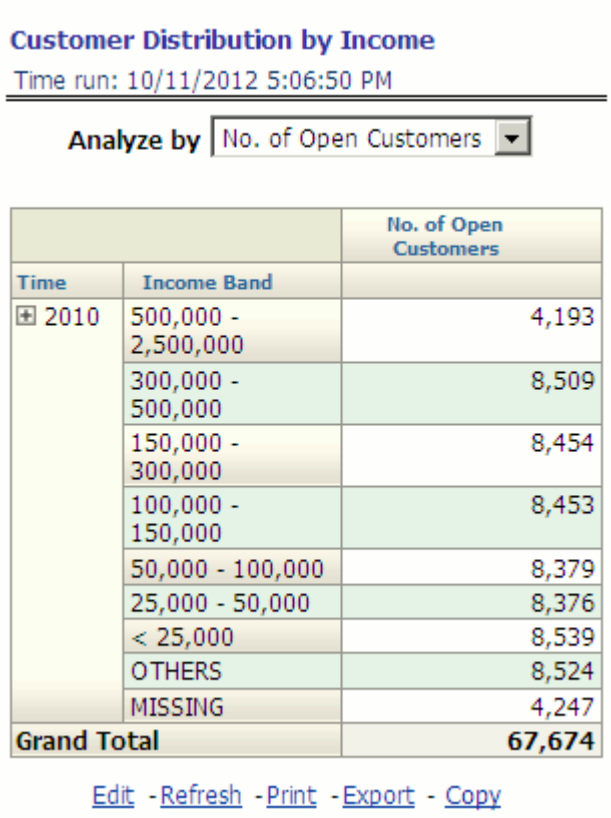
- Customer Distribution by Income

  This report displays Distribution of Open Customers and Open Accounts across Income bands.



Customer Distribution by Income

Time run: 10/11/2012 5:06:50 PM

Analyze by No. of Open Customers

		No. of Open Customers
Time	Income Band	
⊞ 2010	500,000 - 2,500,000	4,193
	300,000 - 500,000	8,509
	150,000 - 300,000	8,454
	100,000 - 150,000	8,453
	50,000 - 100,000	8,379
	25,000 - 50,000	8,376
	< 25,000	8,539
	OTHERS	8,524
	MISSING	4,247
Grand Total		**67,674**

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- Customer Distribution by Age

  This report displays Distribution of Open Customers and Open Accounts across Age bands.

Customer Distribution by Age

Time run: 10/11/2012 5:06:50 PM

Analyze by: No. of Open Customers

Time	Age	No. of Open Customers
⊞ 2010	Less than 25 years	4,730
	25 - 30 years	9,652
	30 - 40 years	9,765
	40 - 50 years	9,766
	50 - 60 years	9,673
	60 - 100 years	9,602
	Age Missing	9,635
	Age Others	4,851
Grand Total		**67,674**

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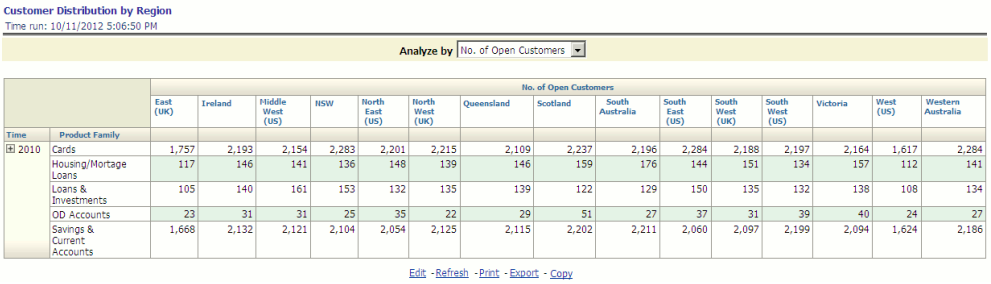
- Customer Distribution by Region

  This report displays Top 10 Products by Customers and Revenue Distribution of Open Customers and Open Accounts across Regions and Products.



Customer Distribution by Region

Time run: 10/11/2012 5:06:50 PM

Analyze by: No. of Open Customers

		No. of Open Customers														
		East (UK)	Ireland	Middle West (US)	NSW	North East (US)	North West (UK)	Queensland	Scotland	South Australia	South East (US)	South West (UK)	South West (US)	Victoria	West (US)	Western Australia
Time	Product Family															
⊞ 2010	Cards	1,757	2,193	2,154	2,283	2,201	2,215	2,109	2,237	2,196	2,284	2,188	2,197	2,164	1,617	2,284
	Housing/Mortage Loans	117	146	141	136	148	139	146	159	176	144	151	134	157	112	141
	Loans & Investments	105	140	161	153	132	135	139	122	129	150	135	132	138	108	134
	OD Accounts	23	31	31	25	35	22	29	51	27	37	31	39	40	24	27
	Savings & Current Accounts	1,668	2,132	2,121	2,104	2,054	2,125	2,115	2,202	2,211	2,060	2,097	2,199	2,094	1,624	2,186

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- Relationship Depth

  This report outlines the depth of the customers' relationship with the bank. It distributes the Number of Open customers (customers who still have at least one relationship with the bank that is in open status) and Number of Open Accounts across the unique product combinations they currently have as open relationships with the bank.

  For example: A Customer who only has a Credit Card account will appear against Cards, while another customer who has both a Cards and a Savings Account will appear against Cards, CASA.

Relationship Depth

Time run: 10/11/2012 5:06:50 PM

		No. of Open Customers	No. of Open Accounts
Time	Product Family		
⊞ 2010	CASA	22,696	22698
	Cards	28,456	33453
	Housing/Mortgage	1,279	1294
	Loan & Investments	2,013	2059
	CASA, Housing/Mortgage	1,708	1832
	CASA, Term Deposit, Borrowings & Money Market	3,300	5790
	Cards, CASA	7,336	7431
	Loan & Investments, CASA	323	326
	Overdraft, CASA	141	148
	Overdraft, Cards	359	359
	Overdraft, CASA, Housing/Mortgage	7	8
	Overdraft, CASA, Term Deposit, Borrowings & Money Market	23	33
	Overdraft, Cards, CASA	33	38
Grand Total		**67,674**	**75469**

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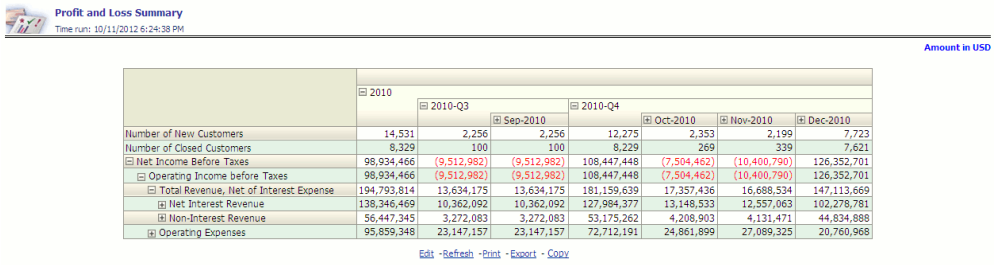
All Products

- Profit and Loss Summary

  This report displays Profit and Loss statement for all products which the user can then limit to specific Line of Business (LOB) or slices of the P&L for a specific LOB across individual customer segments like age, gender, and Income.



Profit and Loss Summary

Time run: 10/11/2012 6:24:38 PM

Amount in USD

	⊟ 2010						
		⊟ 2010-Q3		⊟ 2010-Q4			
			⊞ Sep-2010		⊞ Oct-2010	⊞ Nov-2010	⊞ Dec-2010
Number of New Customers	14,531	2,256	2,256	12,275	2,353	2,199	7,723
Number of Closed Customers	8,329	100	100	8,229	269	339	7,621
⊟ Net Income Before Taxes	98,934,466	(9,512,982)	(9,512,982)	108,447,448	(7,504,462)	(10,400,790)	126,352,701
⊟ Operating Income before Taxes	98,934,466	(9,512,982)	(9,512,982)	108,447,448	(7,504,462)	(10,400,790)	126,352,701
⊟ Total Revenue, Net of Interest Expense	194,793,814	13,634,175	13,634,175	181,159,639	17,357,436	16,688,534	147,113,669
⊞ Net Interest Revenue	138,346,469	10,362,092	10,362,092	127,984,377	13,148,533	12,557,063	102,278,781
⊞ Non-Interest Revenue	56,447,345	3,272,083	3,272,083	53,175,262	4,208,903	4,131,471	44,834,888
⊞ Operating Expenses	95,859,348	23,147,157	23,147,157	72,712,191	24,861,899	27,089,325	20,760,968

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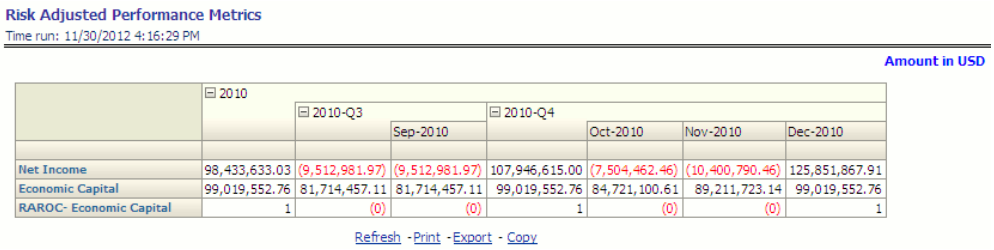
- Risk Adjusted Performance Metrics

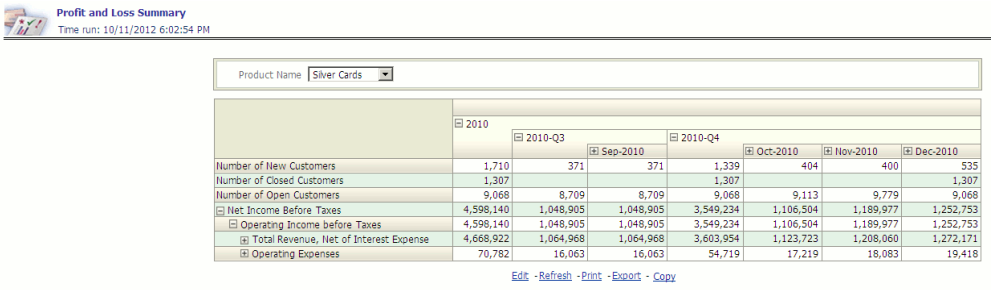
  This report helps you to determine the ratio of risk-adjusted Net Income against the Economic Capital. This metric is also called Risk Adjusted Return On Capital (RAROC). It helps in determining the efficiency of Economic Capital corresponding to every customer.



Cards

- Profit and Loss Summary

  This report displays Profit and Loss statement for Cards products that can be viewed as slices of individual customer segments like age, gender and Income.



- Risk Adjusted Performance Metrics

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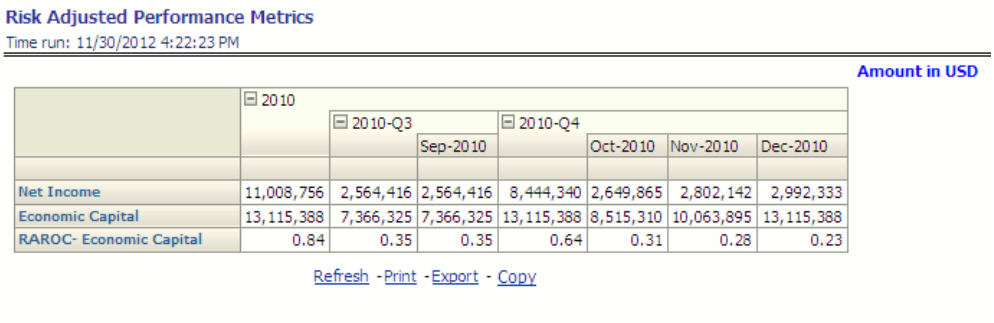
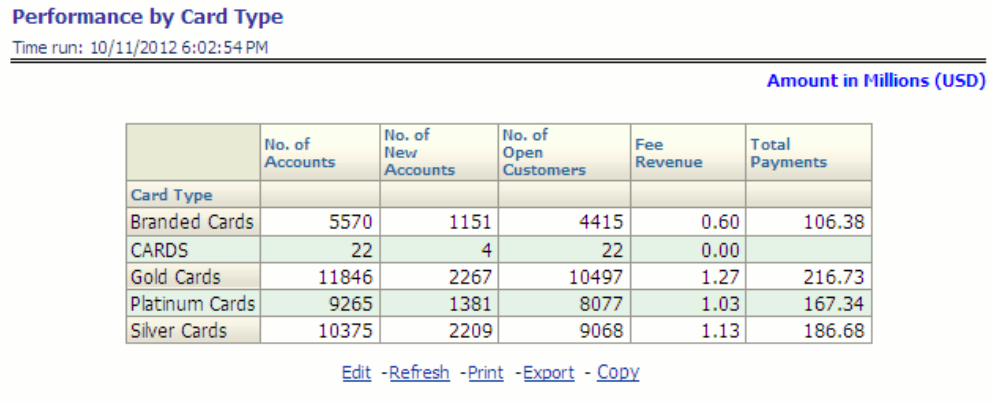


- Performance by Card Type

  This report displays Key Metrics such as Number of New accounts, Number of Open customers and so on reported across various card types demonstrating the

mix across the card types.



Performance by Card Type

Time run: 10/11/2012 6:02:54 PM

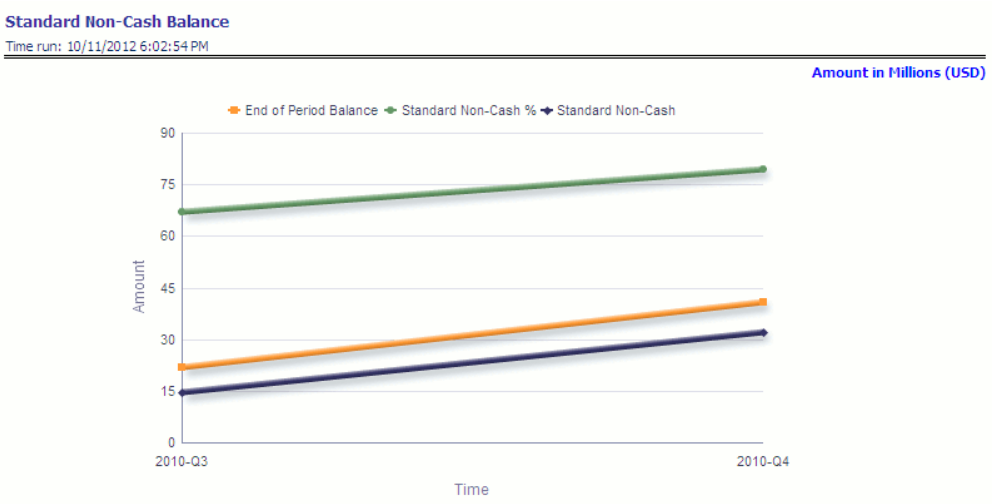
Amount in Millions (USD)

Card Type	No. of Accounts	No. of New Accounts	No. of Open Customers	Fee Revenue	Total Payments
Branded Cards	5570	1151	4415	0.60	106.38
CARDS	22	4	22	0.00	
Gold Cards	11846	2267	10497	1.27	216.73
Platinum Cards	9265	1381	8077	1.03	167.34
Silver Cards	10375	2209	9068	1.13	186.68

Edit -Refresh -Print -Export - Copy

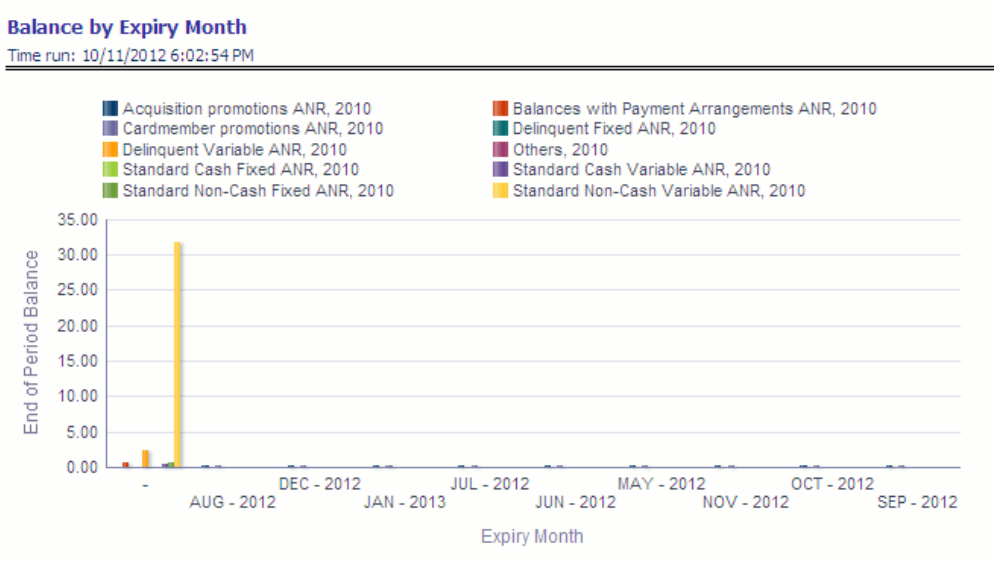
- Standard Non-Cash Balance

  This report displays growth (or decline) of customer non-cash balance over time.



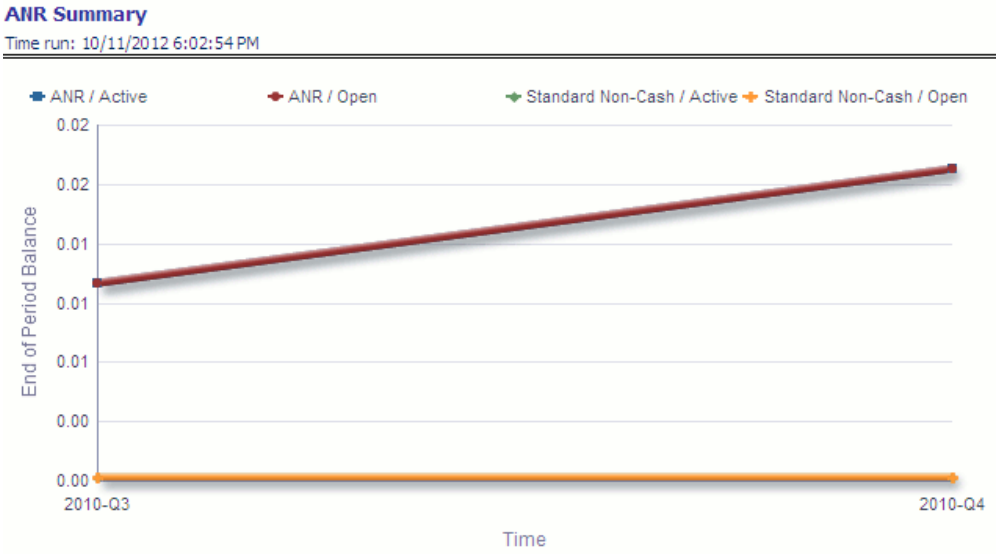
- Balance by Expiry Month

  This report displays balance distribution across offer expiry dates gives the user an indication of the balance that is scheduled to flip to a different balance bucket.



- ANR Summary

  This report displays the average growth (or decline) of balances per open customer in relation to how the standard non-cash balance is growing (or declining).



- Summary of Balance (Receivables) Breakdown

  This report summarizes the Average Net Receivable (ANR) mix across the different balance buckets available within the bank and the effective interest rate across each balance bucket.

Summary of Balance (Receivables) Breakdown

Time run: 10/11/2012 6:02:54 PM

Amount in Millions (USD)

		2010						
			2010-Q3		2010-Q4			
				Sep-2010		Oct-2010	Nov-2010	Dec-2010
Acquisition promotions ANR	Balance	3.27	2.79	2.79	3.27	1.59	3.04	3.27
	Revolve Rate	0.93%	0.26%	0.26%	0.72%	0.46%	0.25%	0.26%
	Effective Interest Rate	1.80%	1.80%	1.80%	1.80%	1.80%	1.80%	1.80%
	Annual Percentage Rate	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%
Balances with Payment Arrangements ANR	Balance	0.72	0.62	0.62	0.72	0.36	0.67	0.72
	Revolve Rate	4.23%	1.15%	1.15%	3.25%	2.05%	1.16%	1.15%
	Effective Interest Rate	7.15%	7.14%	7.14%	7.15%	7.14%	7.15%	7.15%
	Annual Percentage Rate	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%
Cardmember promotions ANR	Balance	1.64	1.39	1.39	1.64	0.80	1.52	1.64
	Revolve Rate	1.86%	0.51%	0.51%	1.43%	0.91%	0.51%	0.51%
	Effective Interest Rate	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.63%
	Annual Percentage Rate	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%
Delinquent Fixed ANR	Balance	0.04	0.03	0.03	0.04	0.02	0.04	0.04
	Revolve Rate	79.98%	21.89%	21.89%	61.36%	38.90%	21.86%	21.88%
	Effective Interest Rate	15.24%	15.24%	15.24%	15.24%	15.25%	15.24%	15.24%
	Annual Percentage Rate	1.27%	1.27%	1.27%	1.27%	1.27%	1.27%	1.27%
Delinquent Variable ANR	Balance	2.34	2.00	2.00	2.34	1.17	2.16	2.34
	Revolve Rate	2.56%	0.70%	0.70%	1.96%	1.23%	0.70%	0.70%
	Effective Interest Rate	32.64%	32.64%	32.64%	32.64%	32.64%	32.64%	32.64%
	Annual Percentage Rate	2.72%	2.72%	2.72%	2.72%	2.72%	2.72%	2.72%
Others	Balance	0.03	0.02	0.02	0.03	0.01	0.02	0.03
	Revolve Rate	82.75%	22.71%	22.71%	63.43%	39.97%	22.69%	22.61%
	Effective Interest Rate	15.16%	15.15%	15.15%	15.16%	15.16%	15.16%	15.16%
	Annual Percentage Rate	1.26%	1.26%	1.26%	1.26%	1.26%	1.26%	1.26%
Standard Cash Fixed ANR	Balance	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Revolve Rate	0.15%	0.04%	0.04%	0.12%	0.07%	0.04%	0.04%
	Effective Interest Rate	4.85%	4.85%	4.85%	4.85%	4.85%	4.85%	4.85%
	Annual Percentage Rate	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%
Standard Cash Variable ANR	Balance	0.38	0.32	0.32	0.38	0.19	0.35	0.38
	Revolve Rate	8.06%	2.20%	2.20%	6.18%	3.93%	2.20%	2.23%
	Effective Interest Rate	22.66%	22.66%	22.66%	22.66%	22.66%	22.66%	22.66%
	Annual Percentage Rate	1.89%	1.89%	1.89%	1.89%	1.89%	1.89%	1.89%
Standard Non-Cash Fixed ANR	Balance	0.63	0.28	0.28	0.63	1.13	0.31	0.63
	Revolve Rate	1.17%	0.61%	0.61%	0.90%	0.15%	0.60%	0.32%
	Effective Interest Rate	7.36%	7.36%	7.36%	7.36%	7.36%	7.36%	7.36%
	Annual Percentage Rate	0.61%	0.61%	0.61%	0.61%	0.61%	0.61%	0.61%
Standard Non-Cash Variable ANR	Balance	31.62	14.36	14.36	31.62	55.11	15.68	31.62
	Revolve Rate	0.80%	0.26%	0.26%	0.38%	0.07%	0.26%	0.14%
	Effective Interest Rate	12.14%	12.13%	12.13%	12.14%	12.13%	12.14%	12.14%
	Annual Percentage Rate	1.01%	1.01%	1.01%	1.01%	1.01%	1.01%	1.01%
Total Balance		**40.66**	**21.82**	**21.82**	**40.66**	**60.38**	**23.80**	**40.66**
Total Revolve Rate		**0.98%**	**0.43%**	**0.43%**	**0.75%**	**0.16%**	**0.43%**	**0.27%**
Total Effective Interest Rate		**12.26%**	**12.26%**	**12.26%**	**12.26%**	**12.26%**	**12.26%**	**12.26%**
Total Annual Percentage Rate		**1.02%**	**1.02%**	**1.02%**	**1.02%**	**1.02%**	**1.02%**	**1.02%**

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Retail Bank

- Product Performance

  This report displays Profit and Loss statement for Retail Bank products or slices of the P&L across individual customer segments like age, gender, and Income.

Product Performance

Time run: 10/11/2012 6:15:31 PM

Amount in USD

Product Family: Savings & Current Accounts Product: Retail & Checking Accounts

	2010					
		2010-Q3	2010-Q4			
				Oct-2010	Nov-2010	Dec-2010
Number of Accounts	33,501	29,377	33,501	30,036	31,605	33,501
Number of Open Accounts	30,903	29,034	30,903	29,662	31,266	30,903
Number of New Accounts	4,031	608	3,423	662	1,261	1,500
Number of Closed Accounts	3,654	343	3,311	374	339	2,598
Net Income Before Taxes	2,055,651	419,257	1,636,394	464,455	447,707	724,232
Operating Income before Taxes	2,055,651	419,257	1,636,394	464,455	447,707	724,232
Total Revenue, Net of Interest Expense	2,314,451	467,377	1,847,074	537,425	515,902	793,747
Operating Expenses	258,800	48,120	210,680	72,970	68,195	69,515
Tax Expense	28,720	2,990	25,730	2,145	10,215	13,370

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- Risk Adjusted Performance Metrics

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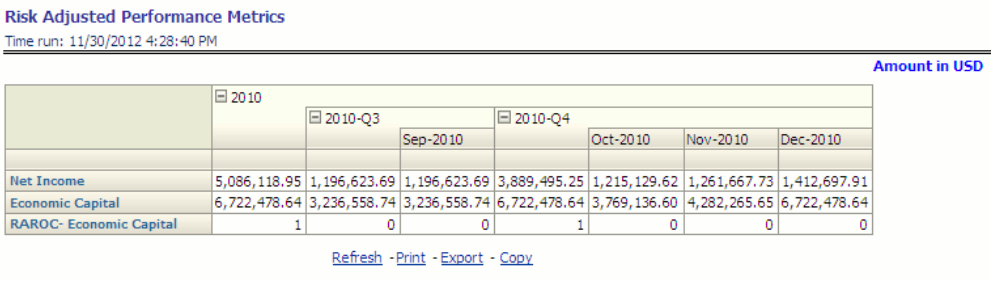

Risk Adjusted Performance Metrics

Time run: 11/30/2012 4:28:40 PM

Amount in USD

	2010						
		2010-Q3		2010-Q4			
			Sep-2010		Oct-2010	Nov-2010	Dec-2010
Net Income	5,086,118.95	1,196,623.69	1,196,623.69	3,889,495.25	1,215,129.62	1,261,667.73	1,412,697.91
Economic Capital	6,722,478.64	3,236,558.74	3,236,558.74	6,722,478.64	3,769,136.60	4,282,265.65	6,722,478.64
RAROC- Economic Capital	1	0	0	1	0	0	0

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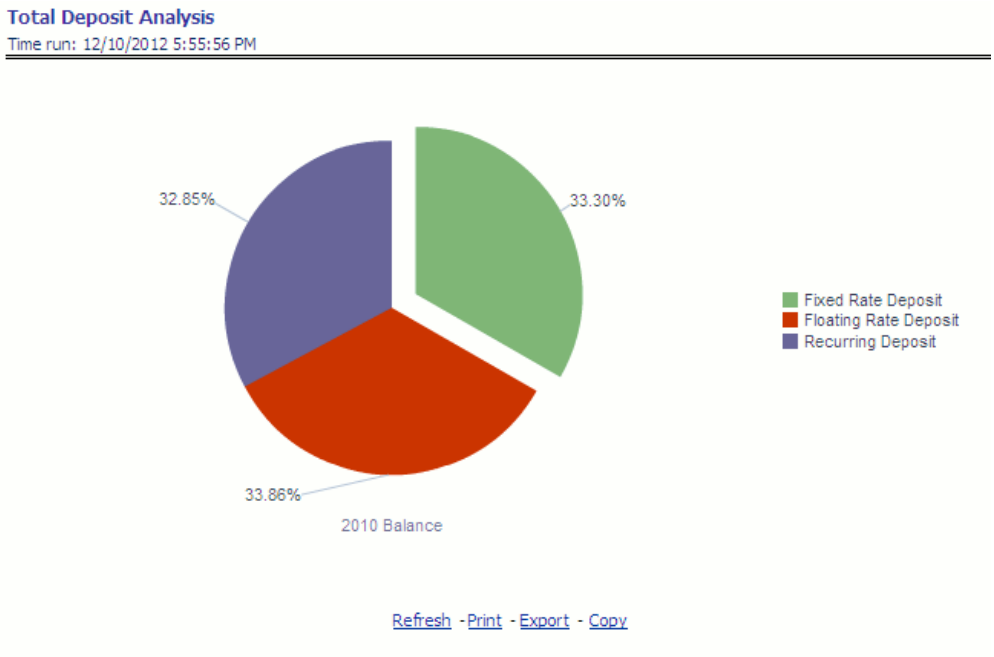
- Total Deposit Analysis

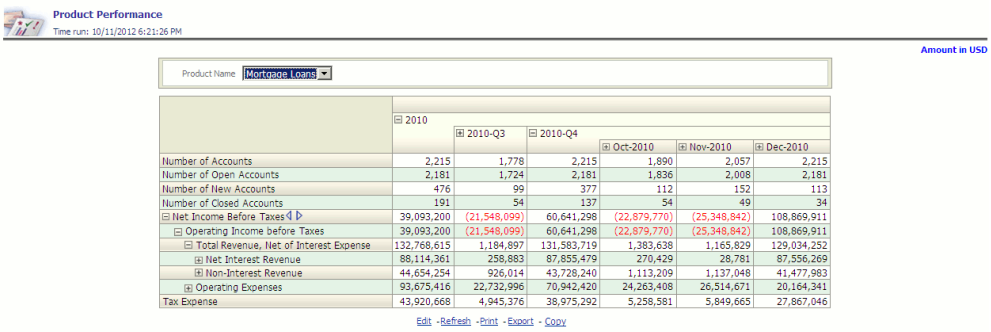
  This report displays the distribution of deposits booked by the bank across various product categories.



Mortgage

- Product Performance

  This report displays Profit and Loss statement for Mortgage products or slices of the P&L across individual customer segments like age, gender, and Income.



Product Performance

Time run: 10/11/2012 6:21:26 PM

Amount in USD

Product Name: Mortgage Loans

	2010					
		2010-Q3	2010-Q4			
				Oct-2010	Nov-2010	Dec-2010
Number of Accounts	2,215	1,778	2,215	1,890	2,057	2,215
Number of Open Accounts	2,181	1,724	2,181	1,836	2,008	2,181
Number of New Accounts	476	99	377	112	152	113
Number of Closed Accounts	191	54	137	54	49	34
Net Income Before Taxes	39,093,200	(21,548,099)	60,641,298	(22,879,770)	(25,348,842)	108,869,911
Operating Income before Taxes	39,093,200	(21,548,099)	60,641,298	(22,879,770)	(25,348,842)	108,869,911
Total Revenue, Net of Interest Expense	132,768,615	1,184,897	131,583,719	1,383,638	1,165,829	129,034,252
Net Interest Revenue	88,114,361	258,883	87,855,479	270,429	28,781	87,556,269
Non-Interest Revenue	44,654,254	926,014	43,728,240	1,113,209	1,137,048	41,477,983
Operating Expenses	93,675,416	22,732,996	70,942,420	24,263,408	26,514,671	20,164,341
Tax Expense	43,920,668	4,945,376	38,975,292	5,258,581	5,849,665	27,867,046

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- Risk Adjusted Performance Metrics

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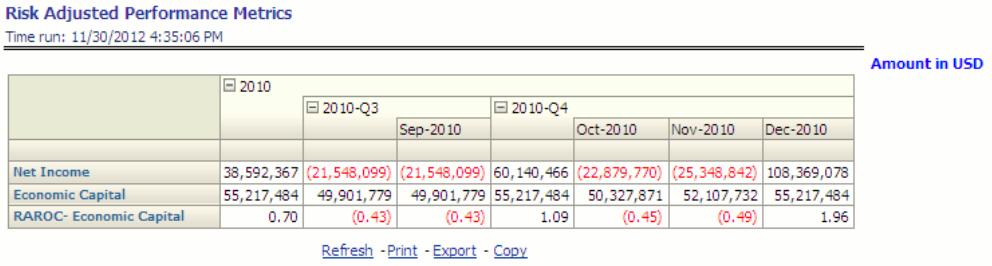


Risk Adjusted Performance Metrics

Time run: 11/30/2012 4:35:06 PM

Amount in USD

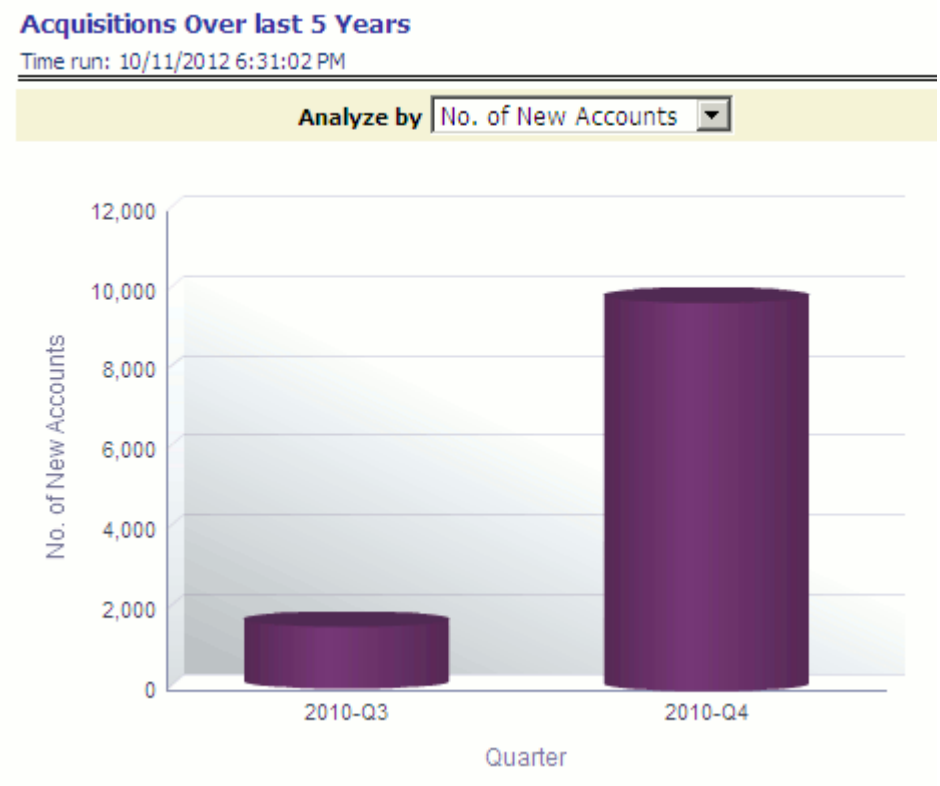
	2010						
		2010-Q3		2010-Q4			
			Sep-2010		Oct-2010	Nov-2010	Dec-2010
Net Income	38,592,367	(21,548,099)	(21,548,099)	60,140,466	(22,879,770)	(25,348,842)	108,369,078
Economic Capital	55,217,484	49,901,779	49,901,779	55,217,484	50,327,871	52,107,732	55,217,484
RAROC- Economic Capital	0.70	(0.43)	(0.43)	1.09	(0.45)	(0.49)	1.96

Refresh - Print - Export - Copy

New Business Analysis

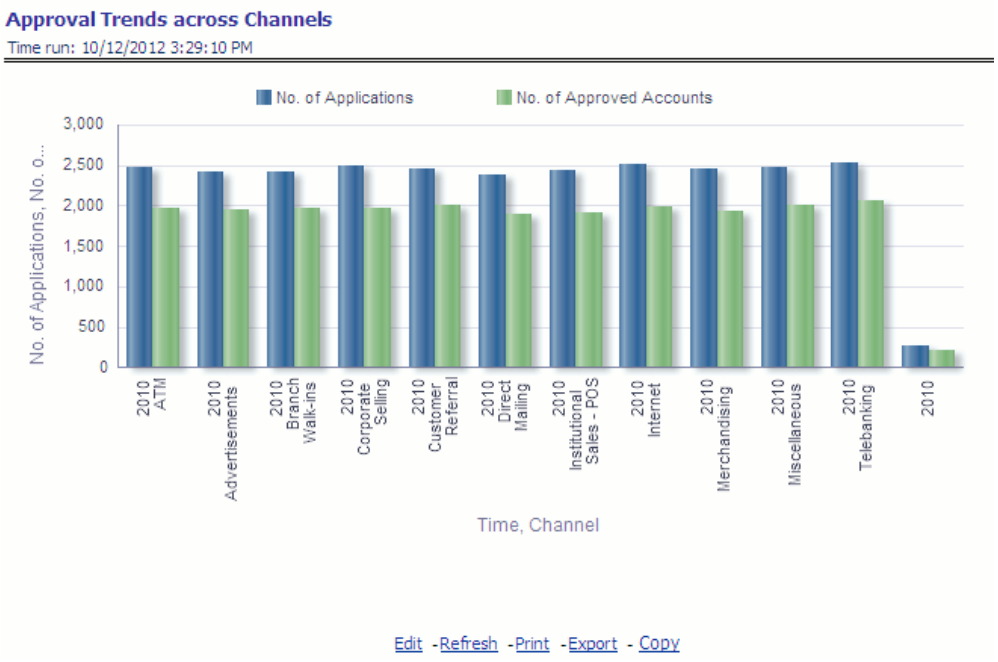
- Acquisitions Over last 5 Years

  This report displays growth of accounts and customers over a period of time. The dashboard prompts allows the user to narrow this analysis down to a specific LOB, Product Family, or Product.



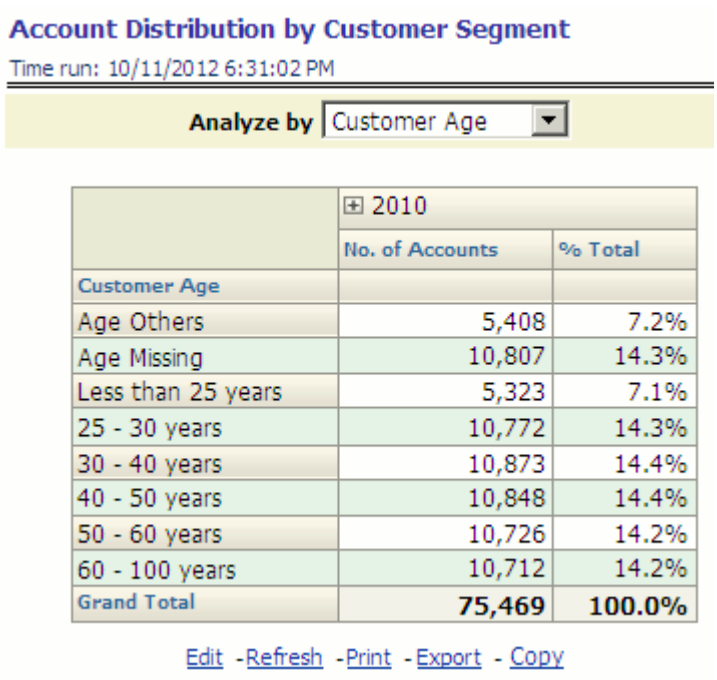
- Approval Trends across Channels

  This report displays variance in approval rates over time across the various bank channels and enables you to track how these rates have gone up or down in specific channels or compare a rise/fall in one channel vs performance in others. The dashboard prompts allows the user to narrow this analysis down to a specific LOB, Product Family or Product.



- Account Distribution by Customer Segment

  Provides a composition of the customers across key customer segments like Age, Gender, Income.



Account Distribution by Customer Segment

Time run: 10/11/2012 6:31:02 PM

Analyze by Customer Age

	⊞ 2010	
	No. of Accounts	% Total
Customer Age		
Age Others	5,408	7.2%
Age Missing	10,807	14.3%
Less than 25 years	5,323	7.1%
25 - 30 years	10,772	14.3%
30 - 40 years	10,873	14.4%
40 - 50 years	10,848	14.4%
50 - 60 years	10,726	14.2%
60 - 100 years	10,712	14.2%
Grand Total	**75,469**	**100.0%**

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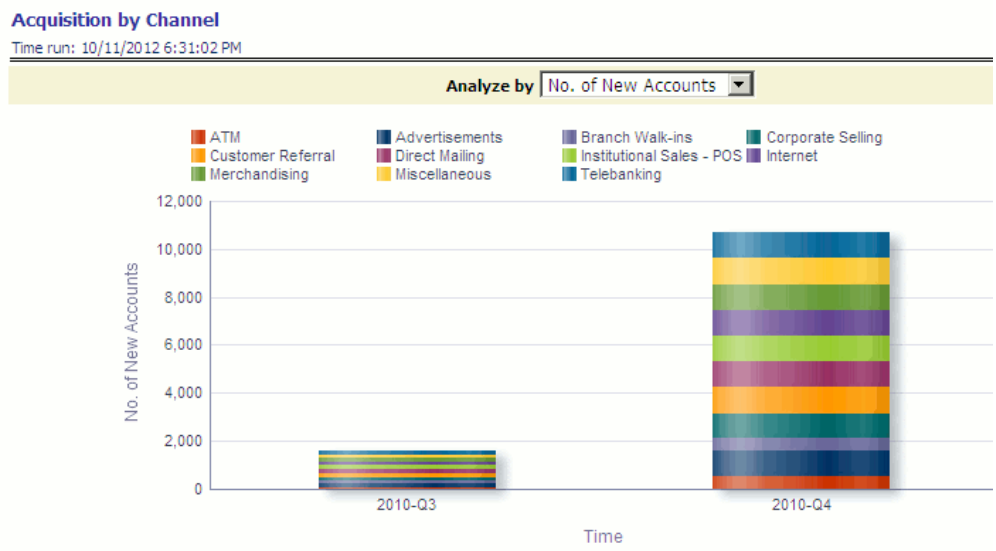
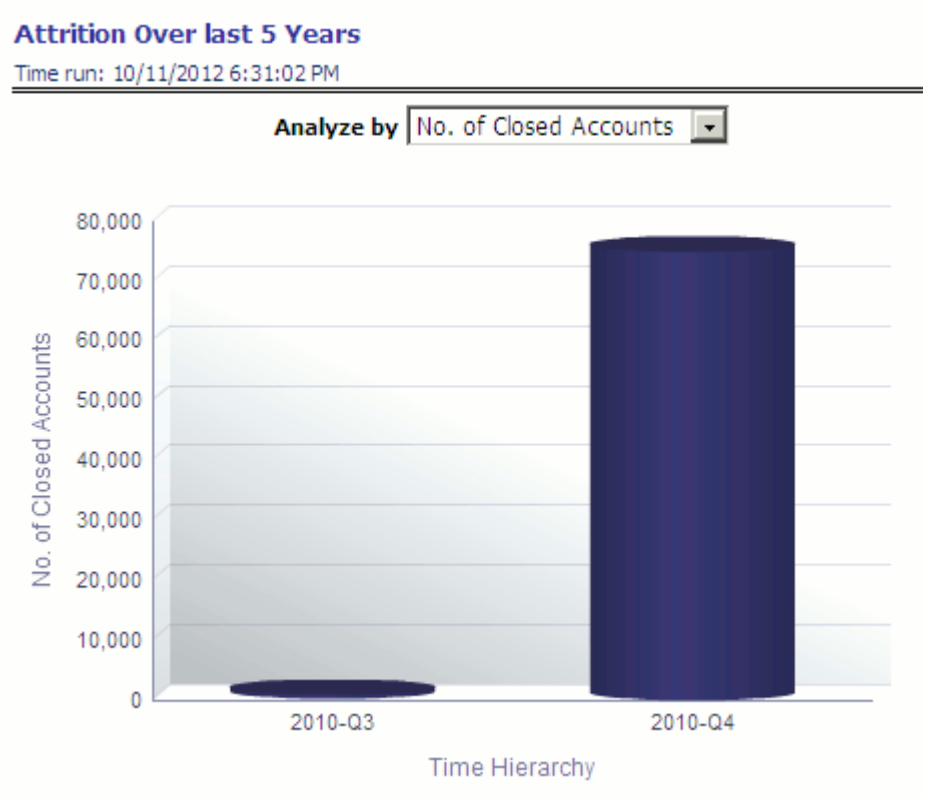
- Acquisition by Channel

This report displays how acquisitions have migrated from one channel to another over a period of time.



- Attrition Over last 5 Years

  This report enables the user to have a view of the outflow (closed customers) or attrition over the last 5 years in order to fully understand how customers are flowing in and out of a certain product or product family or LOB.



- Marketing Expenses Over last 5 Years

  Marketing expenses incurred by the bank over the last 5 years.

- Top 10 Reject Reasons

  This report displays variance analysis of the various reasons why an application was rejected. This can also be viewed as a time series to see trends over a period of time.

Top 10 Reject Reasons

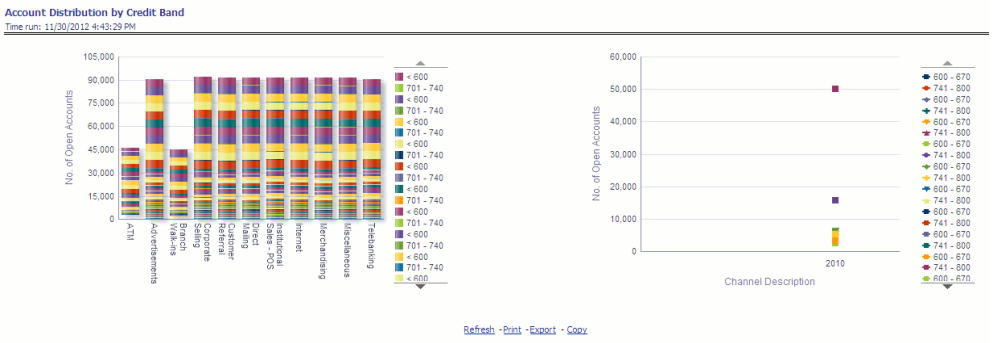
Time run: 10/11/2012 6:31:02 PM

	No. of Applications
	⊞ 2010
Rejection Reason	
OTH	97.0%
INCOLL	0.3%
MGTRISK	0.3%
ODEP	0.2%
CREG	0.2%
EXEXP	0.2%
INCAP	0.2%
NUIP	0.2%
BIZOB	0.2%
EXCLIM	0.2%
CRDEF	0.2%
INDRISK	0.2%
CGCREJ	0.2%
Grand Total	**100.0%**

Edit -Refresh -Print -Export - Copy

- Account Distribution by Credit Band

  This report outlines the number of accounts booked across various credit score bands. The credit score corresponds to the customer holding the account.

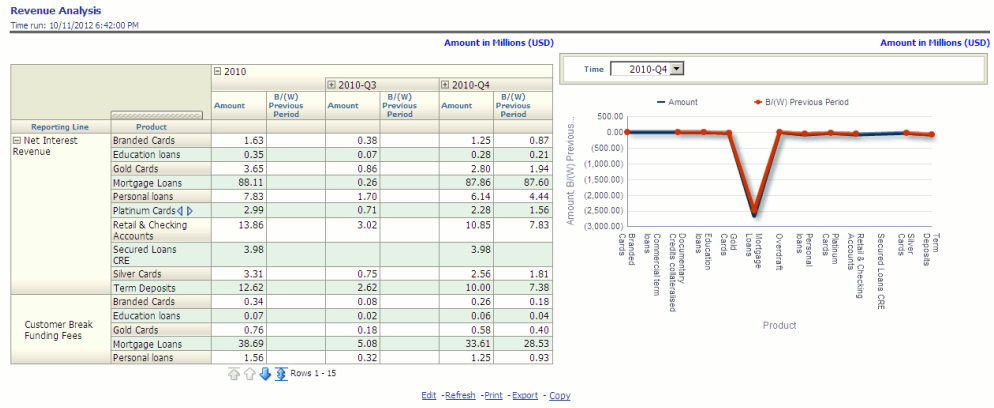


Revenue Analysis

- Revenue Analysis

  This report displays variance analysis of the various Revenue components like Fee Income, Net Interest Revenue, and so on by Product with ability to further

understand this distribution across key customer segments like Gender, Age, and Income.

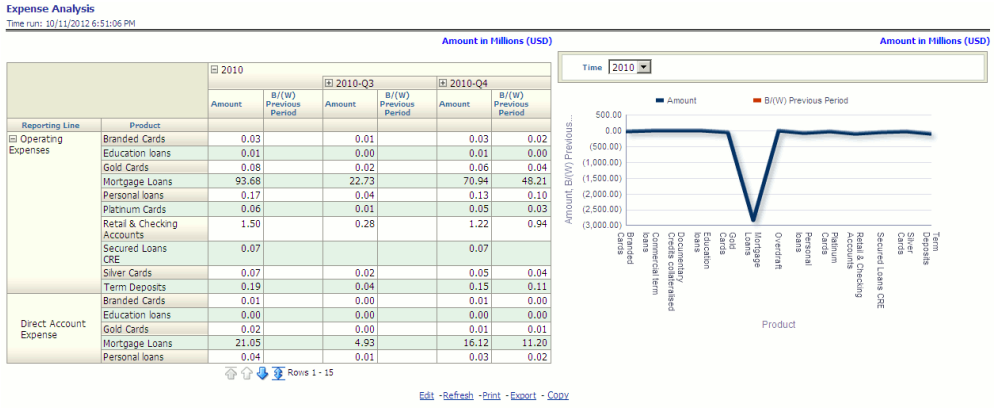


Reporting Line	Product	2010 Amount	2010 B/(W) Previous Period	2010-Q3 Amount	2010-Q3 B/(W) Previous Period	2010-Q4 Amount	2010-Q4 B/(W) Previous Period
Net Interest Revenue	Branded Cards	1.63		0.38		1.25	0.87
	Education loans	0.35		0.07		0.28	0.21
	Gold Cards	3.65		0.86		2.80	1.94
	Mortgage Loans	88.11		0.26		87.86	87.60
	Personal loans	7.83		1.70		6.14	4.44
	Platinum Cards	2.99		0.71		2.28	1.56
	Retail & Checking Accounts	13.86		3.02		10.85	7.83
	Secured Loans CRE	3.98				3.98	
	Silver Cards	3.31		0.75		2.56	1.81
	Term Deposits	12.62		2.62		10.00	7.38
Customer Break Funding Fees	Branded Cards	0.34		0.08		0.26	0.18
	Education loans	0.07		0.02		0.06	0.04
	Gold Cards	0.76		0.18		0.58	0.40
	Mortgage Loans	38.69		5.08		33.61	28.53
	Personal loans	1.56		0.32		1.25	0.93

Expense Analysis

- Expense Analysis

This report displays variance analysis of the various Expense components like Direct Expenses, Operating Expenses, and so on by Product with ability to further understand this distribution across key customer segments like Gender, Age, and Income.

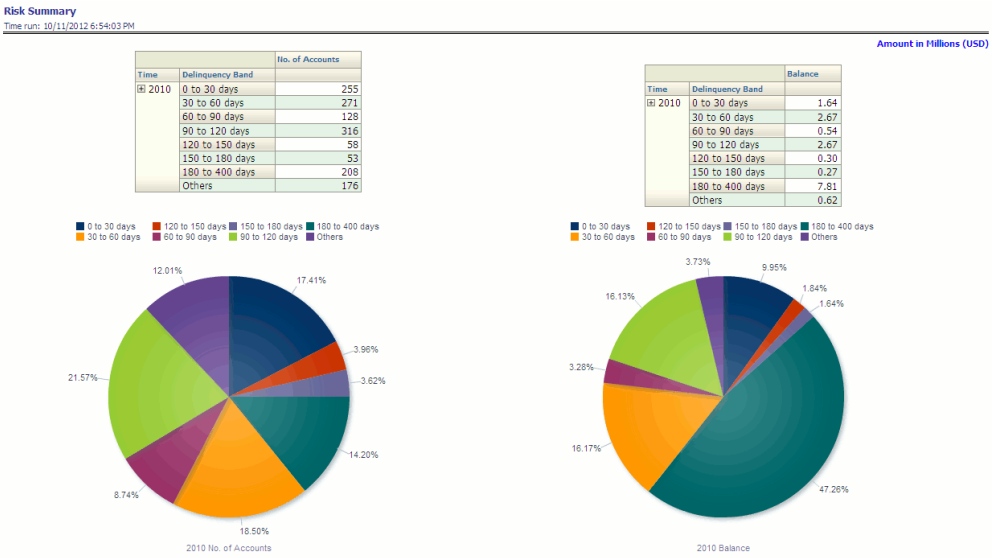


Reporting Line	Product	2010 Amount	2010 B/(W) Previous Period	2010-Q3 Amount	2010-Q3 B/(W) Previous Period	2010-Q4 Amount	2010-Q4 B/(W) Previous Period
Operating Expenses	Branded Cards	0.03		0.01		0.03	0.02
	Education loans	0.01		0.00		0.01	0.00
	Gold Cards	0.08		0.02		0.06	0.04
	Mortgage Loans	93.68		22.73		70.94	48.21
	Personal loans	0.17		0.04		0.13	0.10
	Platinum Cards	0.06		0.01		0.05	0.03
	Retail & Checking Accounts	1.50		0.28		1.22	0.94
	Secured Loans CRE	0.07				0.07	
	Silver Cards	0.07		0.02		0.05	0.04
	Term Deposits	0.19		0.04		0.15	0.11
Direct Account Expense	Branded Cards	0.01		0.00		0.01	0.00
	Education loans	0.00		0.00		0.00	0.00
	Gold Cards	0.02		0.00		0.01	0.01
	Mortgage Loans	21.05		4.93		16.12	11.20
	Personal loans	0.04		0.01		0.03	0.02

Credit Loss Summary

- Risk Summary

This report gives a snapshot of the number of accounts in each delinquency bucket and the corresponding balance in each of these buckets. This can further be refined to limit this data to a specific LOB or a product within a LOB.



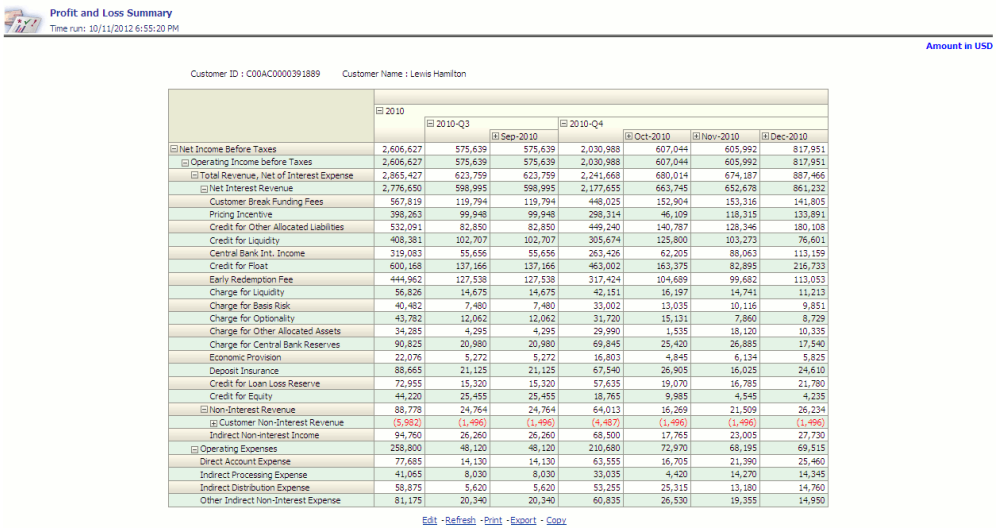
- Net Credit Loss

  This report displays Net Credit Loss (Gross Credit Loss adjusted for any recoveries) booked by the bank.

Customer Profit and Loss

- Profit and Loss Summary

  Enables you to view a P&L statement for a specific customer within the bank. This can be viewed at a customer level or for each individual account that the customer owns.



Profit and Loss Summary
Time run: 10/11/2012 6:55:20 PM

Amount in USD

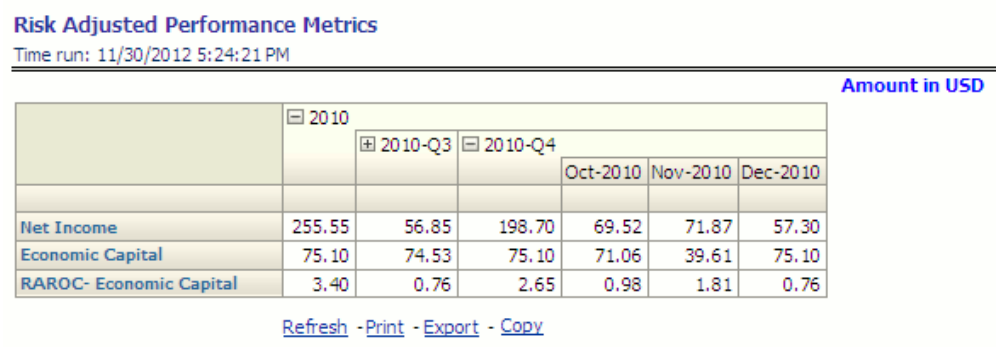
Customer ID : C00AC0000391889 Customer Name : Lewis Hamilton

	2010						
		2010-Q3		2010-Q4			
			Sep-2010		Oct-2010	Nov-2010	Dec-2010
Net Income Before Taxes	2,606,627	575,639	575,639	2,030,988	607,044	605,992	817,951
Operating Income before Taxes	2,606,627	575,639	575,639	2,030,988	607,044	605,992	817,951
Total Revenue, Net of Interest Expense	2,865,427	623,759	623,759	2,241,668	680,014	674,187	887,466
Net Interest Revenue	2,776,650	598,995	598,995	2,177,655	663,745	652,678	861,232
Customer Break Funding Fees	567,819	119,794	119,794	448,025	152,904	153,316	141,805
Pricing Incentive	398,263	99,948	99,948	298,314	46,109	118,315	133,891
Credit for Other Allocated Liabilities	532,091	82,850	82,850	449,240	140,787	128,346	180,108
Credit for Liquidity	408,381	102,707	102,707	305,674	125,800	103,273	76,601
Central Bank Int. Income	319,083	55,656	55,656	263,426	62,205	88,063	113,159
Credit for Float	600,168	137,166	137,166	463,002	163,375	82,895	216,733
Early Redemption Fee	444,962	127,538	127,538	317,424	104,689	99,682	113,053
Charge for Liquidity	56,826	14,675	14,675	42,151	16,197	14,741	11,213
Charge for Basis Risk	40,482	7,480	7,480	33,002	13,035	10,116	9,851
Charge for Optionality	43,782	12,062	12,062	31,720	15,131	7,860	8,729
Charge for Other Allocated Assets	34,285	4,295	4,295	29,990	1,535	18,120	10,335
Charge for Central Bank Reserves	90,825	20,980	20,980	69,845	25,420	26,885	17,540
Economic Provision	22,076	5,272	5,272	16,803	4,845	6,134	5,825
Deposit Insurance	88,665	21,125	21,125	67,540	26,905	16,025	24,610
Credit for Loan Loss Reserve	72,955	15,320	15,320	57,635	19,070	16,785	21,780
Credit for Equity	44,220	25,455	25,455	18,765	9,985	4,545	4,235
Non-Interest Revenue	88,778	24,764	24,764	64,013	16,269	21,509	26,234
Customer Non-Interest Revenue	(5,982)	(1,496)	(1,496)	(4,487)	(1,496)	(1,496)	(1,496)
Indirect Non-interest Income	94,760	26,260	26,260	68,500	17,765	23,005	27,730
Operating Expenses	258,800	48,120	48,120	210,680	72,970	68,195	69,515
Direct Account Expense	77,685	14,130	14,130	63,555	16,705	21,390	25,460
Indirect Processing Expense	41,065	8,030	8,030	33,035	4,420	14,270	14,345
Indirect Distribution Expense	58,875	5,620	5,620	53,255	25,315	13,180	14,760
Other Indirect Non-Interest Expense	81,175	20,340	20,340	60,835	26,530	19,355	14,950

Edit - Refresh - Print - Export - Copy

- Risk Adjusted Performance Metrics

  This report helps you to determine the ratio of risk-adjusted Net Income against the Economic Capital. This metric is also called Risk Adjusted Return On Capital (RAROC). It helps in determining the efficiency of Economic Capital corresponding to every customer.



Risk Adjusted Performance Metrics
Time run: 11/30/2012 5:24:21 PM

Amount in USD

	2010					
		2010-Q3	2010-Q4			
				Oct-2010	Nov-2010	Dec-2010
Net Income	255.55	56.85	198.70	69.52	71.87	57.30
Economic Capital	75.10	74.53	75.10	71.06	39.61	75.10
RAROC- Economic Capital	3.40	0.76	2.65	0.98	1.81	0.76

Refresh - Print - Export - Copy

A

How to Add a New Dimension

Introduction

This section explains the steps to be performed by the user for adding a new dimension to the cube.

As a prerequisite, dimension tables should be added in the data model and the fact table needs to have the referential key with the dimension table. These dimension tables will hold dimension members and can be level-based or parent-child.

Level based dimension tables contain columns for each level of the hierarchy, while parent-child dimension tables contain columns for storing the relationship between the parent and child members. These dimension tables can be loaded from external systems or can be maintained within the Dimension Management component of OFSAAI.

If user intends to maintain the dimension within OFSAAI, see Data Model Utilities Guide for adding dimension tables under "Object Management" chapter.

Procedures to Add a New Dimension

Step 1 – Add Business Hierarchy

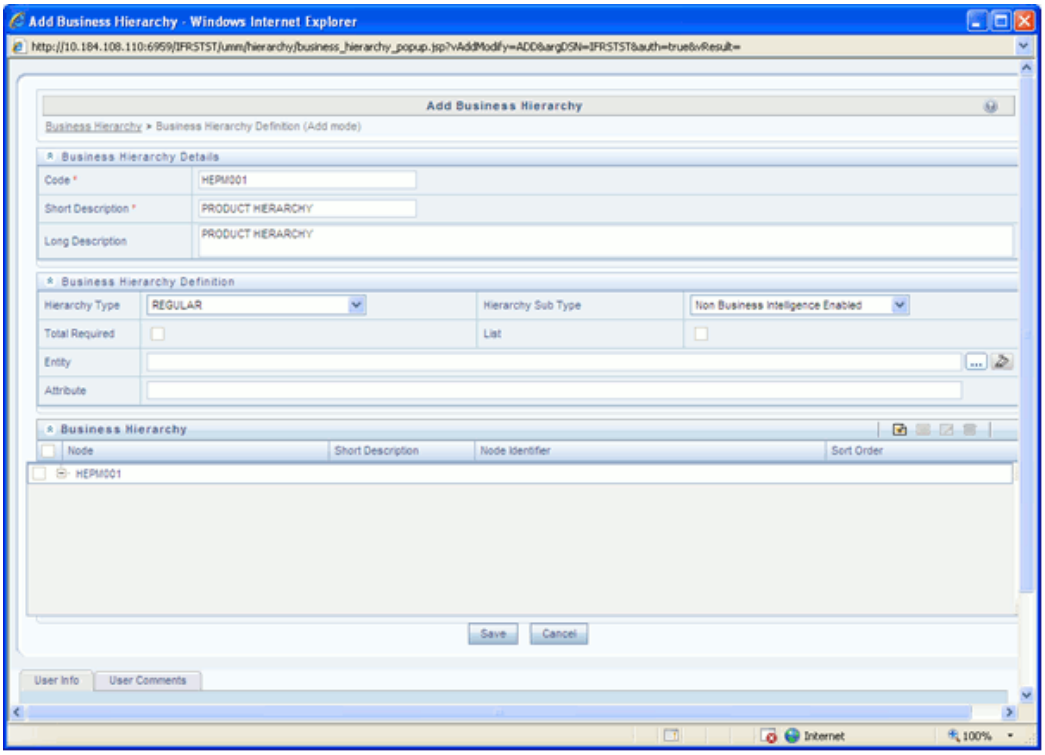
To define a new **Business Hierarchy**, go to **Unified Metadata Manager**, select **Business Metadata Management** and choose the type of hierarchy.

Hierarchy Types are:

- **Regular** – For representing non-time and non-measure dimensions in a hierarchical format. For example, this type are Product, Organization Unit, and so on.

- **Measure** – For representing the measures in the hierarchical format. This corresponds to a ACCOUNT hierarchy within the ESSBASE. An example of this type is Management Reporting Line.

- **Time** – For representing the calendar or date dimension in a hierarchical format. Time hierarchy corresponds to a TIME hierarchy within Essbase and this can be leveraged to pull data from the relational database. This An example of this type is Calendar hierarchy.



Choose Hierarchy subtype. Hierarchy SubTypes are:

- **Non Business Intelligence Enabled** – For representing the hierarchy with underlying data store containing just leaves and nodes are built within the metadata of the hierarchy. This subtype is useful for modelling bucket/range, ragged, and non-additive hierarchies.

- **Business Intelligence Enabled** – For representing the hierarchy with underlying data store as level-based dimension table. This subtype is useful for modelling balanced hierarchies.

- **Parent Child** – For representing the hierarchy with underlying data store as a parent-child dimension table. This subtype is useful for modelling ragged hierarchies.

Select the "Total Required" property, if a TOTAL is required to be included as the root node of the hierarch and select the "List" property, if hierarchy is a flat list of members without any levels.

Choose the entity and attribute on which the hierarchy is based. The components for hierarchy definition differ for each subtype of the hierarchy.

If subtype is "Non Business Intelligence Enabled", then the user can add nodes and order in which the node should appear in the hierarchy (sort-order). Node identifiers are SQL expressions that are specified for leaf members and data is classified based on the node identifiers.

If sub-type is "Business Intelligence Enabled", then the user can specify the levels and SQL expression for each level within the hierarchy.

If sub-type is "Parent Child", then the user can specify the column that contains the parent member and that contains the child member.

For more details, see *Oracle Financial Services Analytical Applications Infrastructure 7.3 User Guide.*

Step 2 – Add Business Dimension

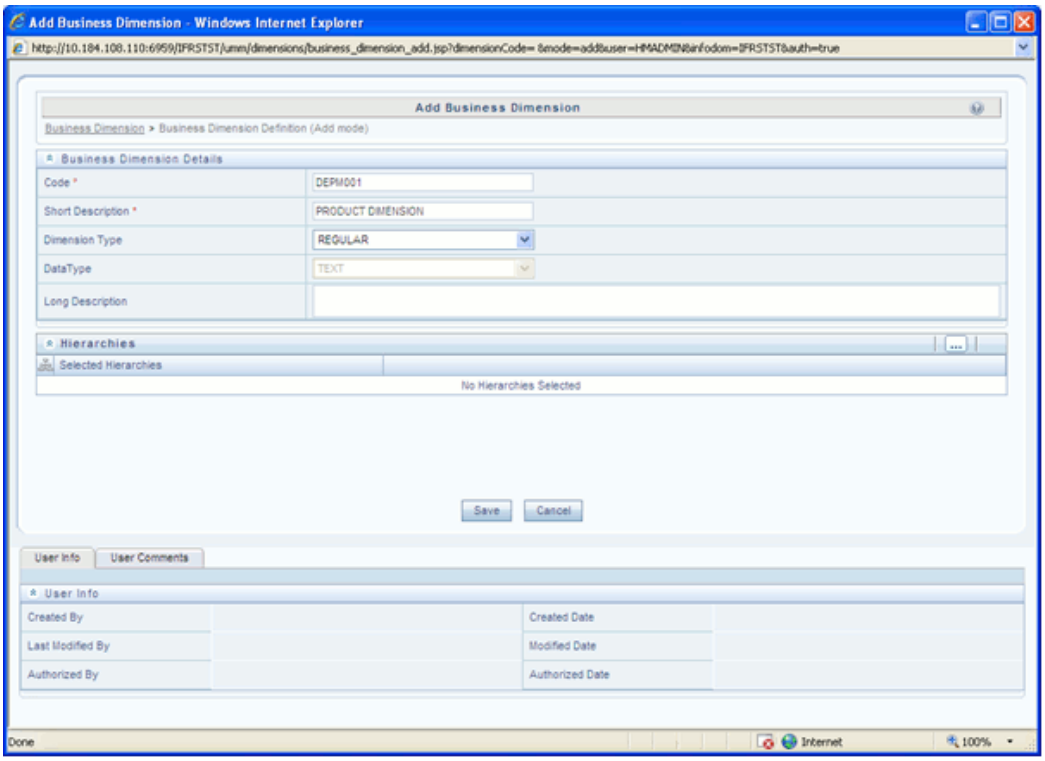
A Business Dimension is a structure of one or more logical grouping (hierarchies) that classifies data. It is the categorization across which measures are viewed. A dimension can have one or more hierarchies. Business Dimension facilitates you to create a logical connection with measures. It gives you various options across which you can view measures.

To define a new **Business Dimension,** go to **Unified Metadata Manager**, select **Business Metadata Management**.

Choose the **Dimension Type**. Dimension Type is same as Hierarchy Type and helps to filter the hierarchies that will be part of the dimension. A dimension will contain one or many hierarchies. Choose the hierarchies that are part of the dimension.

The User Info grid at the bottom of the screen displays the metadata information about the Business Dimension created along with the option to add comments.

Click **Save** in **Add Business Dimension** screen to save the details.

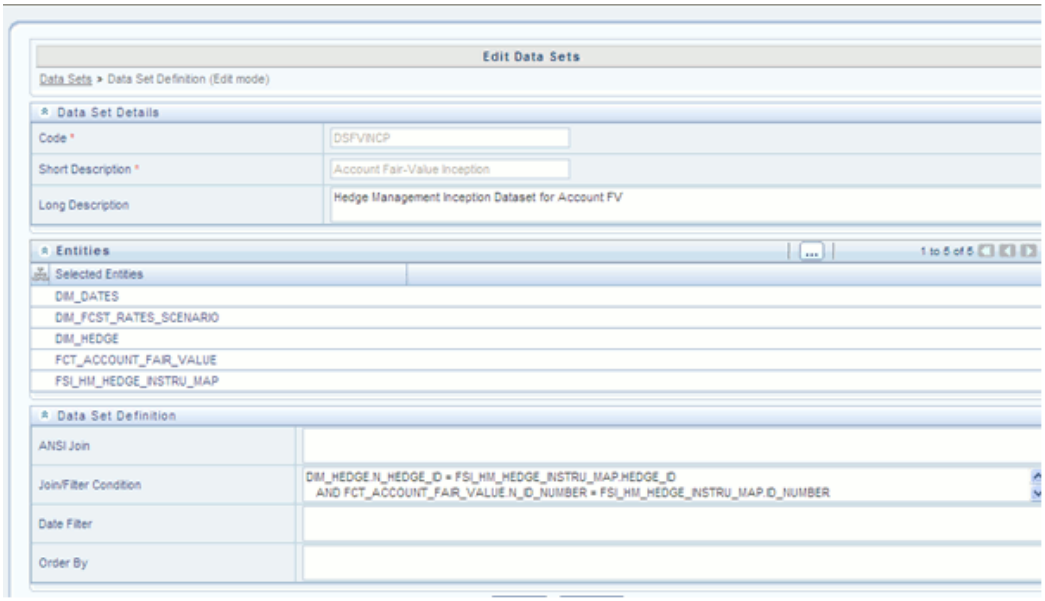


For more details, see *Oracle Financial Services Analytical Applications Infrastructure 7.3 User Guide.*

Step 3 – Modify Data Set

To modify **Data Sets**, go to **Unified Metadata Manager --> Business Metadata Management.**

Identify data sets that are based on the modified fact table. Open the data set definition. Include the new dimension table in the data set. Modify the data set JOIN to include the join clause between the fact table and new dimension table. Save the data set.



For more details, see *Oracle Financial Services Analytical Applications Infrastructure 7.3 User Guide.*

Step 4 – Modify Cube Definition

Modify "Cubes" in **Unified Metadata Manager -> Business Metadata Management**. Identify the cube that needs to be modified. Open the cube definition. Add the new dimension. Map the measures to the newly added dimension and **Save** the cube definition.

For more details, see *Oracle Financial Services Analytical Applications Infrastructure 7.3 User Guide.*

Step 5 – Build Cube

Assuming that the dimension table and fact table is loaded with relevant data, cube can be built. Define batch to execute the CREATE CUBE component that will build the outline and load data in ESSBASE.

For more information on executing batch, see *Oracle Financial Services Analytical Applications Infrastructure 7.3 User Guide*.

B

How to Add a New Measure

Introduction

This section details the steps to be performed by the user for adding a new measure to the cube. As a prerequisite, the fact table needs to have the column that holds values for the new measure.

Business Measure refers to a uniquely named data element of relevance which can be used to define views within the data warehouse. It typically implies aggregated information as opposed to information at a detailed granular level that is available before adequate transformations. Business Measure facilitates you to create measures based on the area of analysis. While creating a measure, you can choose the aggregation type and apply business exclusion rules based on your query/area of analysis.

Dimension Definition Process

Step 1 – Add Business Measure

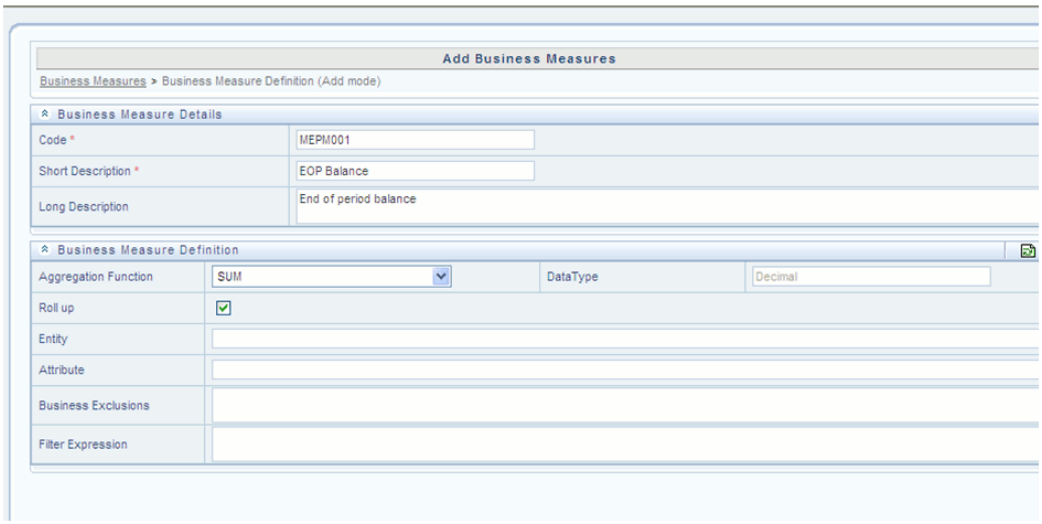
1. From **Unified Metadata Manager**, select **Business Metadata Management**, then select **Business Measures**.

2. From Business Measures, click **Add** to create a Business measure definition. In the Business Measure Definition (Add mode) window, Select **Aggregation Function**. Aggregation Function can be:

   - SUM – for summing up the values in the column of the fact table.
   - COUNT – for determining the number of records in the fact table.
   - MAXIMUM – for identifying the maximum value of a column in the fact table.
   - MINIMUM – for identifying the minimum value of a column in the fact table.

- COUNT DISTINCT – for determining the distinct count of records in the fact table.

3. Specify if this measure needs to be rolled up against hierarchies.
4. Select the fact table as part of the Entity.
5. Select the column of the fact table as part of the Attribute. This column will hold the value of the measure.
6. Specify Business Exclusions and Filters, if required.
7. Save the measure.



For more information on Business Measures, see Business Measures under Unified Metadata Manager chapter in *Oracle Financial Services Analytical Applications Infrastructure 7.3 User Guide*.

Step 2 – Modify Cube Definition

1. From **Unified Metadata Manager**, select **Business Metadata Management**, then select **Cube**.
2. Identify the cube that needs to be modified.
3. Edit the cube definition.
4. Add the new measure.
5. Map the measures to the to the required dimensions.

6. Save the cube definition.

Build Cube

Assuming that the dimension table and fact table is loaded with relevant data, cube can be built.

Define batch to execute the CREATE CUBE component that will build the outline and load data in ESSBASE.

For more information on executing the batch, see *Oracle Financial Services Analytical Applications Infrastructure User Guide*.

C

How to Develop a New Cube

Introduction to Developing a New Cube

This section details the steps to be performed by the user for developing a new cube. Make sure that the existing cubes do not provide the required analytics / reporting coverage before deciding to define a new cube. In case user would like to see measures against a new dimension that is not part of the existing seeded metadata, then suggest including the new dimension as part of the existing cubes instead of creating a new cube. As a prerequisite, user should have defined datasets, measures, hierarchies and dimensions before defining a cube.

Procedures to Develop a New Cube

Step 1 – Add Cube

From **Unified Metadata Manager**, select **Business Metadata Management**, then select **Cube**. Specify the MDB details that will be created in ESSBASE.

Step 2 – Include Dimensions

Include dimensions that are part of the cube definition. Users mandatorily need to include TIME and MEASURE dimensions.

Step 3 – Specify Variations

Specify variations between each of the measures to the respective dimensions. All the measures that are part of the cube need not vary against all of the dimensions. Depending on business needs, variations can be specified to control the rollup of measures against a set of dimensions.

Step 4 – Specify Dataset

Specify dataset corresponding to the selected dimensions and measures. Data set will supply required data to the cube.

Step 5 – Specify Node Level Formula

If node level formula's are required to be specified for the nodes within the hierarchy, then they can be specified in this UI.

Step 6 – Save and Build

Save the cube. Define and execute batch in ICC to build the cubes.

For more information on Cubes, see Cubes under Unified Metadata Manager chapter in *Oracle Financial Services Analytical Applications Infrastructure 7.3 User Guide*.

D

List of Members

List of Hard-Coded Members

Following are the dimension members that are hard-coded within the application:

Table Name	Column Name	Expected Values
DIM_CUSTOMER_TYPE	V_CUST_CATEGORY	R
	F_LATEST_RECORD_INDICATOR	Y
FCT_CRM_ACCOUNT_SUMMARY	V_SCENARIO_CODE	PLAN,
		BUDGET
DIM_BANDS	V_BAND_TYPE	AGE
		INCOME
		AGEONBOOK
		ACCT_ATTRITION_SCORE
		CUST_CR_RISK_SCORE
		NO_OF_ACCOUNTS
		RESPRATE

Table Name	Column Name	Expected Values
		DELQBAND
FCT_TXN_CHANNEL	V_F_CHNL_TYPE	MONETARY,NONMONETARY
	F_F_TXN_DR_CR_IND	C,D
DIM_PRODUCT	V_PROD_TYPE	CARDS
		RB
		DEPOSITS
		CASA
		AUTOLOAN
		TD
		MORTGAGE
FCT_ACCOUNT_PROFITABILITY	N_REP_LINE_CD	98000 - Net Income Before Taxes
		98500 - Tax Expense
		99000 - Net Income After Taxes
		107100 - Number of Customers
		107130 - Number of Open Customers
		107200 - Number of Accounts
		107230 - Number of Open Accounts
		107300 - Attrition Rate
DIM_PRODUCT_TYPE	V_ACCT_PROD_TYPE	CARDS

Table Name	Column Name	Expected Values
		RB
		DEPOSITS
		CASA
		AUTOLOAN
		TD
		MORTGAGE

E

How to Define a Batch

Introduction

Batch refers to a set of executable processes based on a specified rule. Batch Maintenance framework within OFSAAI facilitates you to create and maintain the Batch Definitions. You can process the Batch scheduled for execution from Batch Maintenance and also from other modules.

You need to have Data Centre Manager function role mapped to access the Operations framework within OFSAAI. You can access Batch Maintenance by expanding Operations section within the tree structure of LHS menu. The *Batch Maintenance* window displays a list of Batches scheduled for maintenance with the other details such as Batch ID, Batch Description, and the editable state of the Batch.

Batch Creation

You can create a batch from the *Batch Maintenance* screen as mentioned below:

1. From the OFSAAI **Home** menu, navigate to **Operations > Batch Maintenance**.
2. In the *Batch Maintenance* window, Select '+' button from the *Batch Name* tool bar.

   The *New Batch Definition* window is displayed.
3. Enter the Batch details as tabulated.

Field	Description
Batch Name	The **Batch Name** is auto generated by the system. You can edit to specify a Batch name based on the following conditions: • The Batch Name should be unique across the Information Domain. • The Batch Name must be alpha-numeric and should not start with a number. • The Batch Name should not exceed 41 characters in length. • The Batch Name should not contain special characters "." and "-".
Batch Description	Enter a description for the Batch based on the Batch Name.
Duplicate Batch	(Optional) Select the checkbox to create a new Batch by duplicating the existing Batch details. On selection, the **Batch ID** field is enabled.
Batch ID (If duplicate Batch is selected)	It is mandatory to specify the Batch ID if Duplicate Batch option is selected. Select the required **Batch ID** from the list.
Sequential Batch	Select the check box if the Batch has to be created sequentially based on the task specified. For example, if there are 3 tasks defined in a Batch, task 3 should have precedence as task 2, and task 2 should have precedence as task 1.

4. Click **Save** to save the Batch definition details.

The new Batch definition details are displayed in the *Batch Name* section of *Batch Maintenance* window with the specified **Batch ID**.

Note: For a more comprehensive coverage of configuration and execution of a batch, refer to the *Operations* Chapter in *Oracle Financial Services Analytical Applications Infrastructure User Guide.*