Oracle Financial Services Cash Flow Engine Cloud Service Business Intelligence Analytics



Release 22.12.01 F75361-01 January 2023

ORACLE

Oracle Financial Services Cash Flow Engine Cloud Service Business Intelligence Analytics, Release 22.12.01

F75361-01

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Contents

1 Get Help

1.1	Get Help in the Applications	1-1
1.2	Learn About Accessibility	1-1
1.3	Get Support	1-1
1.4	Get Training	1-1
1.5	Join Our Community	1-2
1.6	Share Your Feedback	1-2
1.7	Before You Begin	1-2

2 Introduction

3 Access Business Intelligence (BI) Reports

4 Preparing Data using SQL Query Browser

5 Raw Data Analysis

5.1 Stag	ging Instrument Data	5-4
5.1.1	Assets	5-5
5.1.2	Liabilities	5-5
5.1.3	Derivative Contracts	5-6
5.1.4	Fee Based Services	5-7
5.1.5	Loan Commitments	5-8
5.1.6	Off Balance Sheet Items	5-9
5.1.7	Ledger - Instruments	5-10
5.2 Stag	ging Instrument Supplementary Data	5-11
5.2.1	Account Index History	5-11
5.2.2	Account Rate Tiers	5-12
5.2.3	Embedded Options Schedule	5-13
5.2.4	Payment Schedule	5-14



5.3 Stag	ing Ledger Data	5-15
5.3.1	Management Ledger	5-16
5.3.2	Management Ledger01	5-17
5.3.3	Management Ledger02	5-18
5.3.4	Management Ledger03	5-19
5.3.5	Management Ledger04	5-20
5.3.6	Management Ledger05	5-21
5.4 Proc	essing Instrument Data	5-22
5.4.1	Assets	5-23
5.4.2	Liabilities	5-23
5.4.3	Derivative Contracts	5-24
5.4.4	Fee Based Services	5-25
5.4.5	Loan Commitments	5-26
5.4.6	Off Balance Sheet Items	5-27
5.4.7	Ledger - Instruments	5-28
5.5 Proc	essing Instrument Supplementary Data	5-29
5.5.1	Account Index History	5-29
5.5.2	Account Rate Tiers	5-30
5.5.3	Embedded Options Schedule	5-31
5.5.4	Payment Schedule	5-32
5.6 Proc	essing Ledger Data	5-33
5.6.1	Management Ledger	5-34
5.6.2	Management Ledger01	5-34
5.6.3	Management Ledger02	5-35
5.6.4	Management Ledger03	5-36
5.6.5	Management Ledger04	5-37
5.6.6	Management Ledger05	5-38
5.7 Proc	essing Transaction Summary Data	5-39
5.7.1	Asset Transaction Summary	5-39
5.7.2	Liabilities Transaction Summary	5-40
5.7.3	Fee Based Services Transaction Summary	5-41
5.7.4	Off Balance Sheet Transaction Summary	5-42

6 Cash Flow Report

6.1	Overview of Cash Flow Report	6-1
6.2	Viewing Cash Flow Report	6-2
6.3	Downloading the Report	6-3



7 Data Insights

7.1	Casł	h Flow Edits	7-1
	7.1.1	Common Filters	7-1
	7.1	1.1.1 "Rules" Canvas Prompt Filters	7-1
	7.1	1.1.2 "Process Stats" Canvas Prompt Filters	7-2
	7.1	1.1.3 "Message Log" Canvas Prompt Filters	7-3
	7.1.2	Report Data Action	7-3
	7.1.3	Rules	7-5
	7.1.4	Process Stats	7-6
	7.1.5	Message Log	7-8

8 Processed Data Insights

8.1	Cash	n Flow Output	8-1
8	.1.1	Common filters	8-1
8	.1.2	Report Hierarchies	8-4
8	.1.3	In canvas Variable Prompts	8-5
8	.1.4	Report Data Action	8-8
8	.1.5	Process Stats	8-10
8	.1.6	Runoff by KPDs	8-12
8	.1.7	Balances by KPDs	8-14
8	.1.8	Rates by KPDs	8-16
8	.1.9	Process Results Details	8-19



1 Get Help

Topics:

- Get Help in the Applications
- Learn About Accessibility
- Get Support
- Get Training
- Join Our Community
- Share Your Feedback
- Before You Begin

1.1 Get Help in the Applications

Use Help icons to access help in the application.

Note that not all pages have Help icons. You can also access the Oracle Help Center to find guides and videos.

Additional Resources

- Community: Use Oracle Cloud Customer Connect to get information from experts at Oracle, the Partner Community, and other users.
- Training: Take courses on Oracle Cloud from Oracle University.

1.2 Learn About Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program. Videos included in this guide are provided as a media alternative for text-based topics also available in this guide.

1.3 Get Support

You can get support at My Oracle Support.

For accessible support, visit Oracle Accessibility Learning and Support.

1.4 Get Training

Increase your knowledge of Oracle Cloud by taking courses at Oracle University.



1.5 Join Our Community

Use Cloud Customer Connect to get information from industry experts at Oracle and in the Partner Community. You can join forums to connect with other customers, post questions, and watch events.

1.6 Share Your Feedback

We welcome your feedback about Oracle Applications User Assistance. If you need clarification, find an error, or just want to tell us what you found helpful, we did like to hear from you.

You can email your feedback to My Oracle Support.

Thanks for helping us improve our User Assistance!

1.7 Before You Begin

Refer to following Documents:

• See What's New



2 Introduction

Cash Flow Engine Cloud Service (CFE) Analytics User Guide describes the features and functions of CFE's Analytics is intended for the use of Administrators, Analysts, Reporting Analysts, and Administrators.

Cash Flow Engine (CFE) Could Service utilizes the power of Oracle Analytics to generate the Business Intelligence Reports.

Oracle Analytics is a scalable and secure Oracle Cloud Service that provides a full set of capabilities to explore and perform collaborative analytics for you, your workgroup, and your enterprise.

With Oracle Analytics Cloud, you also get flexible Service Management capabilities, including fast setup, easy scaling and patching, and automated lifecycle management.

For more information, see the Oracle Analytics Cloud documentation.



3 Access Business Intelligence (BI) Reports

This section describes the steps to access the Business Intelligence (BI) Reports.

To access the Oracle Financial Services Profitability Management Cloud Service BI Reports, from the LHS Menu, select **Analytics**, and then select **Home Page**.

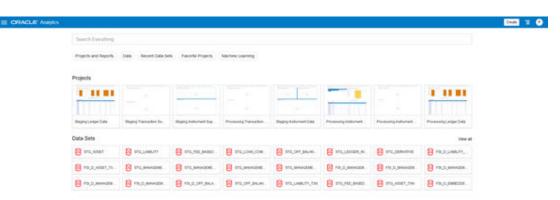


Figure 3-1 Analytics Home Page



Preparing Data using SQL Query Browser

Data Sets are self-service Data Models that you build specifically for your Data Visualization and Analysis requirements.

A Data Set can be based on one Table, Spreadsheet, or a File. Alternatively, a Data Set can be a self-service Data Model that contains multiple Tables with relationships defined between the Tables.

A Data Set contains Data Source Connection Information, Tables, the Columns you specify, and the Data Enrichments, and Transformations that you apply.

For more information, see Visualizing Data and Building Reports in Oracle Analytics Cloud.

To access the SQL Query Browser and prepare Data, follow these steps:

1. From the LHS Menu, select Analytics, and then select SQL Query Browser. The SQL Query Browser allows you to use an existing Database Connector named OFSAA Analytics – Public to interact with the underlying available Database Structures.



Figure 4-1 Create Data Set Screen

2. After selecting the Database Connector, you must select the Database Schema named OFSAA_ANALYTICS_PUB to proceed to the next step of Database Object Selection.

Cancel



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	Click here to add	d a filler									
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			NAL			S_PUB		New Data Indicator	Select Column		
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	575	SYSTEM	WIISYS	XDB							
	313	STSTEM	WH313	ADB							
						Select columns to	include in this Data Se	et			
Select data or visual to											
display properties											
										0 Data Elements	00

Figure 4-2 Add Data Set

- **3.** Provide a meaningful name to the Data Set, which will be generated from this process and be used for the SQL Query Analysis.
- 4. You can search for a Database Object from the available options. You can either scroll down or search the Database Objects displayed in alphabetical order.

	Add Data Set Test ASSET Data			Cancel Add	
	Click here to add a filter				
	OFSAA Analytics - Public > OFSAA_ANALYTICS_PUB	Select Columns Enter SQL	Name	Test ASSET Data	
	Search Q Selection	Remove All. Remove Salected	Description	External Data Set	
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	E FSLD_ASSET_TONS				
	FSLD_DERWITHE			pd_qauser	
	FSI_D_EMBEDDED_OPTIONS_SCH		Created On		
	FSLD_FEE_BASED_SERVICE		Modified On		
	TSI_D_FEE_BASED_SERVICE_TXNS		Refreshed	Never	
	FSLD_LEDGER_INSTRUMENT				
	III FSLD_LIABUTY				
	FSI_D_LIABILITY_TIXIS				
	FSI_D_LOAN_COMMTMENTS				
	×				
Zeşiy Sonşt Select data or visual to display properties		Select columns to include in this	Data Set		

Figure 4-3 Add Data Set – Search from the List

Or

Type the Database Object Name to filter the list with Description.

< 🖯 Test ASSET Data						e Contrat P
8 0	Add Data Set Test ASSET Data				Cancel Add	
Search O	Click here to add a filter					
AssChatt Set A	015M Habits-Polic + 000M_AMATTCI_URB	Selections	Select Columns Entropy Columns Column	Description Connection Data Indicator New Data Indicator Owner Created On	pt_qauser In Progress In Progress	•
Avery Scient			Select columns to include in t	nia Dala Sel		
					01	Data Elements 🥡 🔿 📘 🛅

Figure 4-4 Add Data Set – Search by Name

After you select the Object that want, you can proceed to the next step.

5. You search the Columns that are available for the selected Database Object by scrolling.

Destination Calls here 11 ald 2 in the Order here: East Addit Class Destination Calls here: Calls here: East Addit Class Destination Calls here: East Addit Class Destination Calls here: East Addit Class East Addit Addit Present: East Addit Addit Present: East Addit Class East Addit Addit Present: East Addit Addit Present: East Addit Class East Addit Addit Present: East Addit Addit Present: East Addit Class	C B Test ASSET Date					•
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Figure 4-5 Add Data Set – Search Columns

6. Add the Database Object Column as required.



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	I CUR_GROSS_RATE	4 E FSLD_ASSET	
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		II AS_OF_DATE	New Data Indicator Select Column
	III CUR_GAS	II CUR_PAR_BAL	Owner pt_qauser
	I CUR_OAS_ALT		Created On In Progress
	V III CUR_PAR_BAL		Modified On In Progress
	CUR_PRIMENT		Refreshed Never
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	CUR_TP_PER_AD8		
	CUSP_NUMBER		
	ACCOUNT_NUM. AS_OF_DATE CUR_PAR_BAL		
		Get Preview Data	
		Q	
Select data or visual display properties			

Figure 4-6 Add Data Set – Adding the Database Object Column

7. Click Get Preview Data to display the retrieved Data Results.

Figure 4-7 Data Results

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	O Click here to	add a filter								
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				- 1	III ACCOUNT_NUM	BER		New Data Indicator	Select Column	
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	III CUR_OAS	LALT							In Progress	
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	U CUR_STATIC_SPREAD_ALT									
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	CARDS_38	09/30/2021 12:00:00.000 Ab		1,500,000.00						
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	CARDS_4C	09/30/2021 12:00:00:000 Ab		1,500,000.00						

8. In addition, you can switch to the Enter SQL Pane Editor. You can change the auto-generated SQL Query at any time and click Get Preview Data to retrieve the results based on the modified SQL Query.



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Figure 4-8 Data Results based on modified SQL Query

- 9. Click Add to save the SQL Data.
- 10. Click **Data** on the LHS Menu and click **Data Sets** to display the available Data Sets for usage.
- **11**. Right-click on the Data Set name to display the options as shown:

Figure 4-9 Data Set Options

Name	
FSI_D_ASSET	Project
FSI_D_ASSET_TXNS Open	
	a New Tab
Inspect Reload	

12. In the menu that is displayed, click **Create Project**.



5 Raw Data Analysis

To access the Raw Data Analysis Screen, from the LHS Menu, select Analytics, and then select Raw Data Analysis.

The following table lists the Raw Data Analysis Reports. You can select any report that you want.

Report Name	Scope	Table Layer	Physical Table List	Logical Table List	Report Canvas Name
Staging Instrument Data	Instrument	STG Staging	STG_ASSET STG_LIABILIT Y STG_DERIVATI VE STG_FEE_BA SED_SERVICE STG_LOAN_C OMMITMENTS STG_OFF_BAL ANCE_SHEET STG_LEDGER _INSTRUMENT	Stage Asset Instruments Stage Liability Instruments Stage Derivative Contracts Stage Fee Based and Other Services Stage Loan Commitments Stage Off Balance Sheet Contracts Stage Ledger Instrument	Assets Liabilities Derivative Contracts Fee Based Services Loan Commitments Off Balance Sheet Items Ledger - Instruments
Staging Instrument Supplementary Data	Instrument Supplementary	STG Staging	STG_ACCOUN T_INDEX_HIST STG_ACCOUN T_RATE_TIER S STG_EMBEDD ED_OPTIONS_ SCH STG_PAYMEN T_SCHEDULE	Index History Stage Account Rate Tiers Stage Embedded	Account Index History Account Rate Tiers Embedded Options Schedule Payment Schedule

Table 5-1 Raw Data Analysis Reports



Report Name	Scope	Table Layer	Physical Table List	Logical Table List	Report Canvas Name
Staging Ledger Data	Ledger	STG Staging	STG_MANAGE MENT_LEDGE R STG_MANAGE MENT_LEDGE R_01 STG_MANAGE MENT_LEDGE R_02 STG_MANAGE MENT_LEDGE R_03 STG_MANAGE MENT_LEDGE R_04 STG_MANAGE MENT_LEDGE R_05	U U	Management Ledger Management Ledger 01 Management Ledger 03 Management Ledger 04 Management Ledger 05
Staging Transaction Summary Data	Transaction Summary	STG Staging	STG_ASSET_T XN STG_LIABILIT Y_TXN STG_FEE_BA SED_SERVICE _TXN STG_OFF_BAL ANCE_SHEET _TXN	Transaction Summary Stage Liability Transaction Summary Stage Fee	Assets Transaction Summary Liabilities Transaction Summary Fee Based Services Transaction Summary Off Balance Sheet Transaction Summary

Table 5-1 (Cont.) Raw Data Analysis Reports	Table 5-1	(Cont.) Raw Data Analysis Reports
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Report Name	Scope	Table Layer	Physical Table List	Logical Table List	Report Canvas Name
Processing Instrument Data	Instrument	FSI Processing	FSI_D_ASSET FSI_D_LIABILI TY FSI_D_DERIVA TIVE FSI_D_FEE_B ASED_SERVIC E FSI_D_LOAN_ COMMITMENT S FSI_D_OFF_B ALANCE_SHE ET FSI_D_LEDGE R_INSTRUME NT	Derivative Contracts	Assets Liabilities Derivative Contracts Fee Based Services Loan Commitments Off Balance Sheet Items Ledger Instruments
Processing Instrument Supplementary Data	Instrument Supplementary	FSI Processing	FSI_D_ACCOU NT_INDEX_HI ST FSI_D_ACCOU NT_RATE_TIE RS FSI_D_EMBED DED_OPTION S_SCH FSI_D_PAYME NT_SCHEDUL E	History Account Rate Tiers Embedded Options	Account Index History Account Rate Tiers Embedded Options Schedule Payment Schedule
Processing Ledger Data	Ledger	FSI Processing	FSI_D_MANAG EMENT_LEDG ER FSI_D_MANAG EMENT_LEDG ER_01 FSI_D_MANAG EMENT_LEDG ER_02 FSI_D_MANAG EMENT_LEDG ER_03 FSI_D_MANAG EMENT_LEDG ER_04 FSI_D_MANAG EMENT_LEDG ER_05	Ledger Placeholder Management Ledger 01 Placeholder Management Ledger 02 Placeholder Management Ledger 03 Placeholder Management Ledger 04 Placeholder Management	Management Ledger Management Ledger 01 Management Ledger 03 Management Ledger 04 Management Ledger 05

Table 5-1 (Cont.) Raw	Data Analysis Reports
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Report Name	Scope	Table Layer	Physical Table List	Logical Table List	Report Canvas Name
Processing Transaction Summary Data	Transaction Summary	FSI Processing	FSI_D_ASSET _TXNS FSI_D_LIABILI TY_TXNS FSI_D_FEE_B ASED_SERVIC E_TXNS	Asset Transaction Summary Liability Transaction Summary Fee Based and Other Services	Assets Transaction Summary Liabilities Transaction Summary Fee Based
			FSI_D_OFF_B ALANCE_SHE ET_TXNS	Other Services Transaction Summary Off Balance Sheet Transaction Summary	Services Transaction Summary Off Balance Sheet Transaction Summary

Table 5-1	(Cont.) Raw Data Analysis Reports
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5.1 Staging Instrument Data

You can use this report to perform the analysis on the Staging Area Tables related to Instrument Data. The report contains specifically the following Staging Database Objects:

Report Name	Scope	Table Layer	Physical Table List	Logical Table List	Report Canvas Name
Staging Instrument Data	Instrument	STG-Staging	STG_ASSET STG_LIABILIT Y STG_DERIVA TIVE STG_FEE_BA SED_SERVIC E STG_LOAN_ COMMITMEN TS STG_OFF_BA LANCE_SHE ET STG_LEDGE R_INSTRUME NT	Stage Asset Instruments Stage Liability Instruments Stage Derivative Contracts Stage Fee Based and Other Services Stage Loan Commitments Stage Off Balance Sheet Contracts Stage Ledger Instrument	Assets Liabilities Derivative Contracts Fee Based Services Loan Commitments Off Balance Sheet Items Ledger - Instruments

 Table 5-2
 Staging Instrument Data Reports

5.1.1 Assets

The Assets Report provides the Analysis Capability on the Stage Asset Instrument Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

The report displays the underlying data according to the following Charts' logic:

 Stage Asset Instruments - Aggregated Statistics Aggregation for CUR_PAR_BAL (sum), ORG_PAR_BAL (sum) and CUR_NET_RATE (avg) by AS_OF_DATE, ISO_CURRENCY_CD and PRODUCT_CODE.

In addition, for CUR_NET_RATE, the Additional Balance Weighted Rate, WAVG_CUR_NET_RATE_ASSET, is calculated as the Weighted AVG by CUR_PAR_BAL.

- Stage Asset Instruments Number of Records Trend Total Records Asset aggregated by AS_OF_DATE.
- Stage Asset Instruments Granular table records at ACCOUNT_NUMBER level.

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Figure 5-1 Staging Instrument Data - Assets

5.1.2 Liabilities

The Liabilities Report provides the Analysis Capability on the Stage Liability Instrument Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

The report displays the underlying data according to the following Charts' logic:

 Stage Liability Instruments - Aggregated Statistics Aggregation for CUR_PAR_BAL (sum), ORG_PAR_BAL (sum) and CUR_NET_RATE (avg) by AS_OF_DATE, ISO_CURRENCY_CD and PRODUCT_CODE.



In addition, for CUR_NET_RATE, the additional Balance Weighted Rate, WAVG_CUR_NET_RATE_LIABILITY, is calculated as the Weighted AVG by CUR_PAR_BAL.

- Stage Liability Instruments Number of Records Trend Total Records Liability aggregated by AS_OF_DATE.
- Stage Liability Instruments Granular table records at ACCOUNT_NUMBER level.

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Figure 5-2 Staging Instrument Data - Liabilities

5.1.3 Derivative Contracts

The Derivative Contracts Report provides the Analysis Capability on the Stage Derivative Contracts Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

The report displays the underlying data according to the following Charts' logic:

 Stage Derivative Contracts (Payment) - Aggregated Statistics Aggregation for CUR_PAR_BAL_PAY (sum), ORG_PAR_BAL_PAY (sum) and CUR_NET_RATE_PAY (avg) by AS_OF_DATE, ISO_CURRENCY_CD_PAY and PRODUCT_CODE.

In addition, for CUR_NET_RATE, the additional Balance Weighted Rate, WAVG_CUR_NET_RATE_PAY_DERIVATIVE, is calculated as the Weighted AVG by CUR_PAR_BAL_PAY.

 Stage Derivative Contracts (Receive) - Aggregated Statistics Aggregation for CUR_PAR_BAL_RCV (sum), ORG_PAR_BAL_RCV (sum) and CUR_NET_RATE_RCV (avg) by AS_OF_DATE, ISO_CURRENCY_CD_RCV and PRODUCT_CODE.

In addition, for CUR_NET_RATE, the additional Balance Weighted Rate, WAVG_CUR_NET_RATE_RCV_DERIVATIVE, is calculated as the Weighted AVG by CUR_PAR_BAL_RCV.



- Stage Derivative Contracts Number of Records Trend Total Records Derivative Contracts aggregated by AS_OF_DATE.
- Stage Derivative Contracts Granular table records at ACCOUNT_NUMBER level.

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Figure 5-3 Staging Instrument Data – Derivative Contracts

5.1.4 Fee Based Services

The Fee Based Services Report provides the Analysis Capability on the Stage Fee Based and Other Services Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

The report displays the underlying data according to the following Charts' logic:

 Stage Fee Based Services - Aggregated Statistics Aggregation for CUR_PAR_BAL (sum), ORG_PAR_BAL (sum) and CUR_NET_RATE (avg) by AS_OF_DATE, ISO_CURRENCY_CD and PRODUCT_CODE.

In addition, for CUR_NET_RATE, the additional Balance Weighted Rate, WAVG_CUR_NET_RATE_FEE_BASED, is calculated as the Weighted AVG by CUR_PAR_BAL.

- Stage Fee Based Services Number of Records Trend Total Records Fee Based aggregated by AS_OF_DATE.
- Stage Fee Based Services
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Figure 5-4 Staging Instrument Data – Fee Based Services

5.1.5 Loan Commitments

The Loan Commitments Report provides the Analysis Capability on the Stage Loan Commitments Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

The report displays the underlying data according to the following Charts' logic:

 Stage Loan Commitments - Aggregated Statistics Aggregation for CUR_PAR_BAL (sum), ORG_PAR_BAL (sum) and CUR_NET_RATE (avg) by AS_OF_DATE, ISO_CURRENCY_CD and PRODUCT_CODE.

In addition, for CUR_NET_RATE, the additional Balance Weighted Rate, WAVG_CUR_NET_RATE_LOAN_COMMITMENTS, is calculated as the Weighted AVG by CUR_PAR_BAL.

- Stage Loan Commitments Number of Records Trend Total Records Loan Commitments aggregated by AS_OF_DATE.
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- Stage Loan Commitments
 Granular table records at ACCOUNT_NUMBER level.



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Figure 5-5 Staging Instrument Data – Loan Commitments

5.1.6 Off Balance Sheet Items

The Off Balance Sheet Items Report provides the analysis capability on the Stage off Balance Sheet Contracts Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

The report displays the underlying data according to the following Charts' logic:

 Stage Off Balance Sheet Contracts - Aggregated Statistics Aggregation for CUR_PAR_BAL (sum), ORG_PAR_BAL (sum) and CUR_NET_RATE (avg) by AS_OF_DATE, ISO_CURRENCY_CD and PRODUCT_CODE.

In addition, for CUR_NET_RATE, the additional Balance Weighted Rate, WAVG_CUR_NET_RATE_OFF_BALANCE_SHEET, is calculated as the Weighted AVG by CUR_PAR_BAL.

- Stage Off Balance Sheet Contracts Number of Records Trend Total Record off Balance Sheet aggregated by AS_OF_DATE.
- Stage Off Balance Sheet Contracts Granular table records at ACCOUNT_NUMBER level.



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Figure 5-6 Staging Instrument Data – Off Balance Sheet Items

5.1.7 Ledger - Instruments

The Ledger – Instrument Report provides the analysis capability on the Stage Ledger Instrument Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

The report displays the underlying data according to the following Charts' logic:

 Stage Ledger Instrument - Aggregated Statistics Aggregation for CUR_PAR_BAL (sum), ORG_PAR_BAL (sum) and CUR_NET_RATE (avg) by AS_OF_DATE, ISO_CURRENCY_CD and PRODUCT_CODE.

In addition, for CUR_NET_RATE, the additional Balance Weighted Rate, WAVG_CUR_NET_RATE_LEDGER_INSTRUMENTS, is calculated as the Weighted AVG by CUR_PAR_BAL.

- Stage Ledger Instrument Number of Records Trend Total Records Ledger Instruments aggregated by AS_OF_DATE.
- Stage Ledger Instrument Granular table records at ACCOUNT_NUMBER level.



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Figure 5-7 Staging Instrument Data – Ledger - Instruments

5.2 Staging Instrument Supplementary Data

You can use the Staging Instrument Supplementary Data Report to perform the analysis on the Staging Area Tables related to Instrument Supplementary Data. The report contains specifically the following Staging Database Objects:

Table 5-3	Staging	Instrument	Data Reports
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Report Name	Scope	Table Layer	Physical Table List	Logical Table List	Report Canvas Name
Staging Instrument	Instrument Supplementary	STG-Staging	STG_ACCOUN T_INDEX_HIST	0	Account Index History
Supplementary Data			STG_ACCOUN T_RATE_TIER	Stage Account Rate Tiers	Account Rate Tiers
			S STG_EMBEDD ED_OPTIONS_ SCH	Stage Embedded Options Schedule	Embedded Options Schedule Payment
			STG_PAYMEN T_SCHEDULE	Stage Payment Schedule	Schedule

5.2.1 Account Index History

The Account Index History Report provides the analysis capability on the Stage Account Index History Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.



- Stage Account Index History Number of Records Trend Total Records Account Index History aggregated by AS_OF_DATE.
- Stage Account Index History Granular table records at ACCOUNT_NUMBER level.

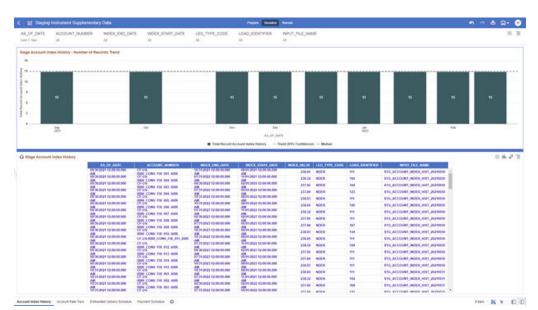


Figure 5-8 Staging Instrument Supplementary Data – Account Index History

5.2.2 Account Rate Tiers

The Account Rate Tiers Report provides the analysis capability on the Stage Account Rate Tiers Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Stage Account Rate Tiers Number of Records Trend Total Records Account Rate Tiers aggregated by AS_OF_DATE.
- Stage Account Rate Tiers Granular table records at ACCOUNT_NUMBER level.



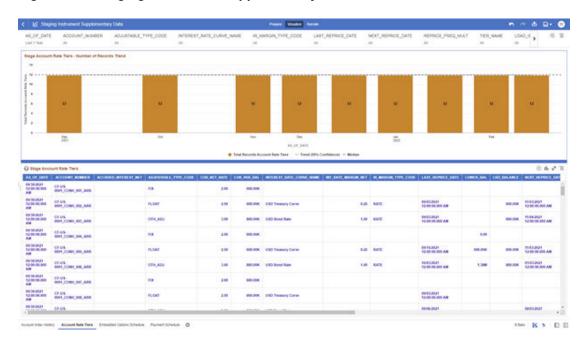


Figure 5-9 Staging Instrument Supplementary Data – Account Rate Tiers

5.2.3 Embedded Options Schedule

The Embedded Options Schedule Report provides the analysis capability on the Stage Embedded Options Schedule Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Stage Embedded Options Schedule Number of Records Trend Total Records Embedded Options Schedule aggregated by AS_OF_DATE.
- Stage Embedded Options Schedule Granular table records at ACCOUNT_NUMBER level.



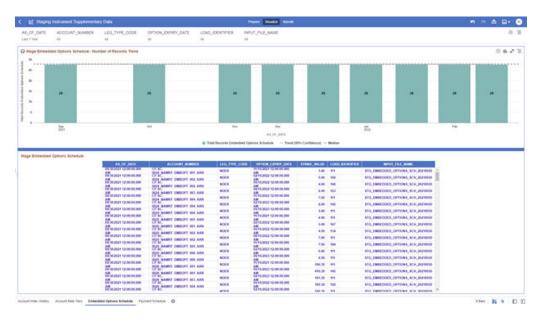


Figure 5-10 Staging Instrument Supplementary Data – Embedded Options Schedule

5.2.4 Payment Schedule

The Payment Schedule Report provides the analysis capability on the Stage Payment Schedule Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Stage Payment Schedule Number of Records Trend Total Records Payment Schedule aggregated by AS_OF_DATE.
- Stage Payment Schedule Granular table records at ACCOUNT_NUMBER level.



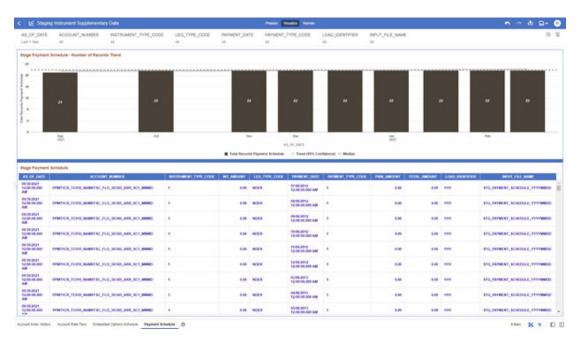


Figure 5-11 Staging Instrument Supplementary Data – Payment Schedule

5.3 Staging Ledger Data

You can use this report to perform the analysis on the Staging Area Tables related to Ledger Data. The report contains specifically the following Staging Database Objects:

Table 4:



Report Name	Scope	Table Layer	Physical Table List	Logical Table List	Report Canvas Name
Staging Ledger Data	Ledger	STG-Staging	STG_MANAG EMENT_LED GER STG_MANAG EMENT_LED GER_01 STG_MANAG EMENT_LED GER_02 STG_MANAG EMENT_LED GER_03 STG_MANAG EMENT_LED GER_04 STG_MANAG EMENT_LED GER_05	Stage Management Ledger Stage Placeholder Management Ledger 01 Stage Placeholder Management Ledger 02 Stage Placeholder Management Ledger 03 Stage Placeholder Management Ledger 04 Stage Placeholder Management Ledger 04	Management Ledger 01 Management Ledger 02 Management Ledger 03 Management Ledger 04 Management Ledger 05

Table 5-4 Staging Ledger Data Reports

5.3.1 Management Ledger

The Management Ledger Report provides the analysis capability on the Stage Management Ledger Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Stage Management Ledger Number of Records Trend Total Records Management Ledger aggregated by AS_OF_DATE.
- Stage Management Ledger
 Granular table records at FINANCIAL_ELEM_CODE level.

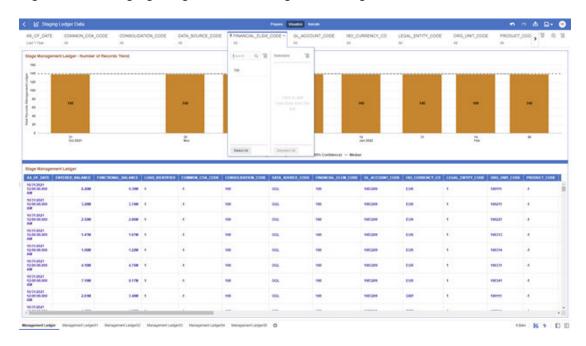


Figure 5-12 Staging Ledger Data – Management Ledger

5.3.2 Management Ledger01

The Management Ledger01 Report provides the analysis capability on the Stage Placeholder Management Ledger 01 table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Stage Management Ledger01 Number of Records Trend Total Records Management Ledger01 aggregated by AS_OF_DATE.
- Stage Management Ledger01
 Granular table records at FINANCIAL_ELEM_CODE level.



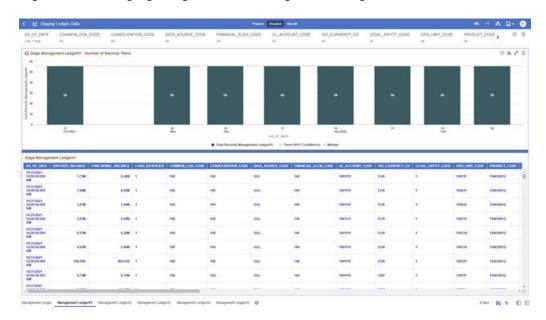


Figure 5-13 Staging Ledger Data – Management Ledger01

5.3.3 Management Ledger02

The Management Ledger02 Report provides the analysis capability on the Stage Placeholder Management Ledger 02 table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Stage Management Ledger02 Number of Records Trend Total Records Management Ledger02 aggregated by AS_OF_DATE.
- Stage Management Ledger02
 Granular table records at FINANCIAL_ELEM_CODE level.



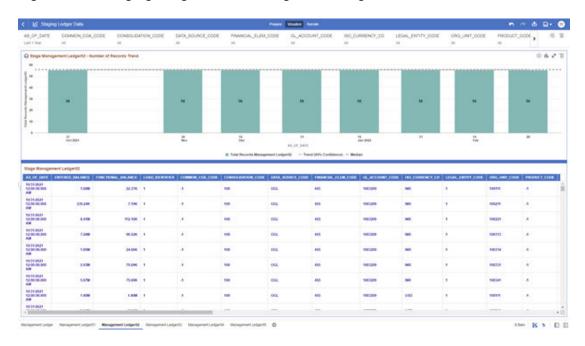


Figure 5-14 Staging Ledger Data – Management Ledger02

5.3.4 Management Ledger03

The Management Ledger03 Report provides the analysis capability on the Stage Placeholder Management Ledger 03 table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Stage Management Ledger03 Number of Records Trend Total Records Management Ledger03 aggregated by AS_OF_DATE.
- Stage Management Ledger03
 Granular table records at FINANCIAL_ELEM_CODE level.



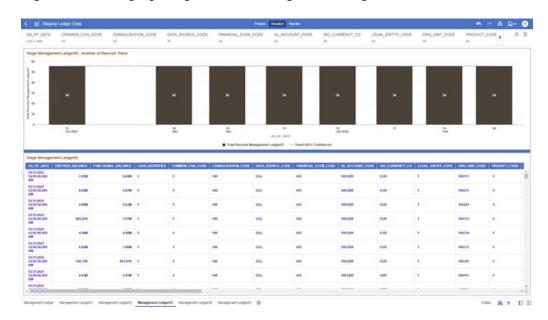


Figure 5-15 Staging Ledger Data – Management Ledger03

5.3.5 Management Ledger04

The Management Ledger04 Report provides the analysis capability on the Stage Placeholder Management Ledger 04 table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Stage Management Ledger04 Number of Records Trend Total Records Management Ledger04 aggregated by AS_OF_DATE.
- Stage Management Ledger04
 Granular table records at FINANCIAL_ELEM_CODE level.



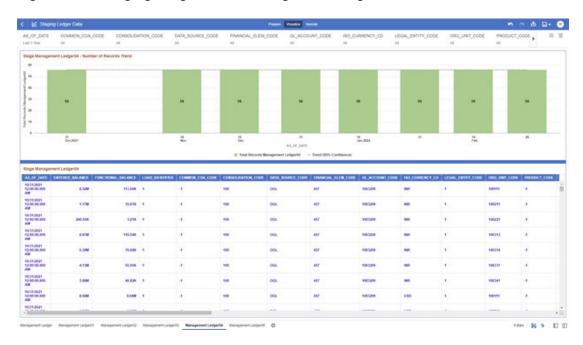


Figure 5-16 Staging Ledger Data – Management Ledger04

5.3.6 Management Ledger05

The Management Ledger05 Report provides the analysis capability on the Stage Placeholder Management Ledger 05 table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Stage Management Ledger05 Number of Records Trend Total Records Management Ledger05 aggregated by AS_OF_DATE.
- Stage Management Ledger05
 Granular table records at FINANCIAL_ELEM_CODE level.



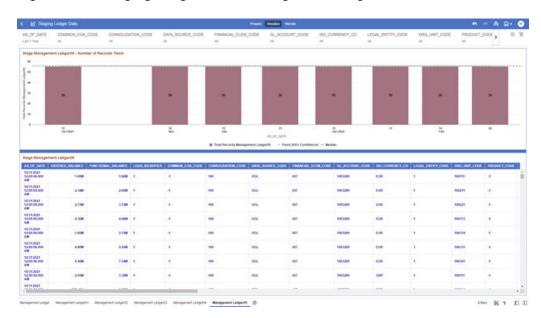


Figure 5-17 Staging Ledger Data – Management Ledger05

5.4 Processing Instrument Data

You can use this report to perform the analysis on the Processing Area Tables related to Instrument Data. The report contains specifically the following Processing Database Objects:

Table 5:

Table 5-5 Processing Instrument Data Reports

Report Name	Scope	Table Layer	Physical Table List	Logical Table List	Report Canvas Name
Processing Instrument Data	Instrument	FSI- Processing	FSI_D_ASSE T FSI_D_LIABIL ITY FSI_D_DERIV ATIVE FSI_D_FEE_ BASED_SER VICE FSI_D_LOAN _COMMITME NTS FSI_D_OFF_ BALANCE_S HEET FSI_D_LEDG ER_INSTRUM ENT	Instruments Derivative Contracts	Assets Liabilities Derivative Contracts Fee Based Services Loan Commitments Off Balance Sheet Items Ledger - Instruments



5.4.1 Assets

The Assets Report provides the analysis capability on the Asset Instrument Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

The report displays the underlying data according to the following Charts' logic:

 Asset Instruments - Aggregated Statistics Aggregation for CUR_PAR_BAL (sum), ORG_PAR_BAL (sum) and CUR_NET_RATE (avg) by AS_OF_DATE, ISO_CURRENCY_CD and PRODUCT_ID.

In addition, for CUR_NET_RATE, the additional Balance Weighted Rate, WAVG_CUR_NET_RATE_ASSET, is calculated as the Weighted AVG by CUR_PAR_BAL.

- Asset Instruments Number of Records Trend Total Records Asset aggregated by AS_OF_DATE.
- Asset Instruments Granular table records at ACCOUNT_NUMBER level.

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Figure 5-18 Processing Instrument Data - Assets

5.4.2 Liabilities

The Liabilities Report provides the analysis capability on the Liability Instrument Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.



 Liability Instruments - Aggregated Statistics Aggregation for CUR_PAR_BAL (sum), ORG_PAR_BAL (sum) and CUR_NET_RATE (avg) by AS_OF_DATE, ISO_CURRENCY_CD and PRODUCT_ID.

In addition, for CUR_NET_RATE, the additional Balance Weighted Rate, WAVG_CUR_NET_RATE_LIABILITY, is calculated as the Weighted AVG by CUR_PAR_BAL.

- Liability Instruments Number of Records Trend Total Records Liability aggregated by AS_OF_DATE.
- Liability Instruments Granular table records at ACCOUNT_NUMBER level.

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Figure 5-19 Processing Instrument Data - Liabilities

5.4.3 Derivative Contracts

The Derivative Contracts Report provides the analysis capability on the Derivative Contracts Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

The report displays the underlying data according to the following Charts' logic:

 Derivative Contracts - Aggregated Statistics Aggregation for CUR_PAR_BAL (sum), ORG_PAR_BAL (sum) and CUR_NET_RATE (avg) by AS_OF_DATE, ISO_CURRENCY_CD and PRODUCT_ID.

In addition, for CUR_NET_RATE, the additional Balance Weighted Rate, WAVG_CUR_NET_RATE_LIABILITY, is calculated as the Weighted AVG by CUR_PAR_BAL.

 Derivative Contracts - Number of Records Trend Total Records Derivative Contracts aggregated by AS_OF_DATE.



Derivative Contracts Granular table records at ACCOUNT_NUMBER level.

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Figure 5-20 Processing Instrument Data – Derivative Contracts

5.4.4 Fee Based Services

The Fee Based Services Report provides the analysis capability on the Fee Based and Other Services Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

The report displays the underlying data according to the following Charts' logic:

 Fee Based Services - Aggregated Statistics Aggregation for CUR_PAR_BAL (sum), ORG_PAR_BAL (sum) and CUR_NET_RATE (avg) by AS_OF_DATE, ISO_CURRENCY_CD and PRODUCT_ID.

In addition, for CUR_NET_RATE, the additional Balance Weighted Rate, WAVG_CUR_NET_RATE_FEE_BASED, is calculated as the Weighted AVG by CUR_PAR_BAL.

- Fee Based Services Number of Records Trend Total Records Fee Based aggregated by AS_OF_DATE.
- Fee Based Services Granular table records at ACCOUNT_NUMBER level.



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Figure 5-21 Processing Instrument Data – Fee Based Services

5.4.5 Loan Commitments

The Loan Commitments Report provides the analysis capability on the Loan Commitments Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

The report displays the underlying data according to the following Charts' logic:

 Loan Commitments - Aggregated Statistics Aggregation for CUR_PAR_BAL (sum), ORG_PAR_BAL (sum) and CUR_NET_RATE (avg) by AS_OF_DATE, ISO_CURRENCY_CD and PRODUCT_ID.

In addition, for CUR_NET_RATE, the additional Balance Weighted Rate, WAVG_CUR_NET_RATE_LOAN_COMMITMENTS, is calculated as the Weighted AVG by CUR_PAR_BAL.

- Loan Commitments Number of Records Trend Total Records Loan Commitments aggregated by AS_OF_DATE.
- Loan Commitments
 Granular table records at ACCOUNT_NUMBER level.



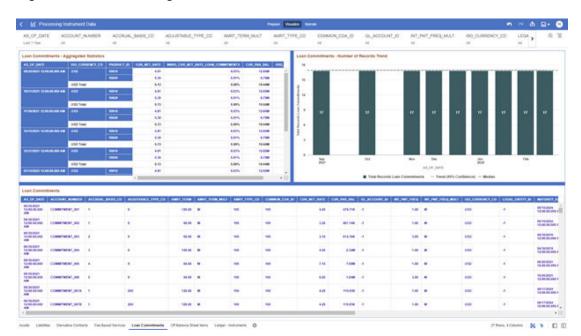


Figure 5-22 Processing Instrument Data – Loan Commitments

5.4.6 Off Balance Sheet Items

The Off Balance Sheet Items Report provides the analysis capability on the Off Balance Sheet Contracts Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

The report displays the underlying data according to the following Charts' logic:

 Off Balance Sheet Contracts - Aggregated Statistics Aggregation for CUR_PAR_BAL (sum), ORG_PAR_BAL (sum) and CUR_NET_RATE (avg) by AS_OF_DATE, ISO_CURRENCY_CD and PRODUCT_ID.

In addition, for CUR_NET_RATE, the additional Balance Weighted Rate, WAVG_CUR_NET_RATE_OFF_BALANCE_SHEET, is calculated as the Weighted AVG by CUR_PAR_BAL.

- Off Balance Sheet Contracts Number of Records Trend Total Record Off Balance Sheet aggregated by AS OF DATE.
- Off Balance Sheet Contracts Granular table records at ACCOUNT_NUMBER level.



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Figure 5-23 Processing Instrument Data – Off Balance Sheet Items

5.4.7 Ledger - Instruments

The Ledger – Instrument Report provides the analysis capability on the Ledger Instrument Table.

You can use a series of Report Prompts to filter the data according to functional key attributes pertaining to the table columns perimeter.

The report displays the underlying data according to the following Charts' logic:

 Ledger Instrument - Aggregated Statistics Aggregation for CUR_PAR_BAL (sum), ORG_PAR_BAL (sum) and CUR_NET_RATE (avg) by AS_OF_DATE, ISO_CURRENCY_CD and PRODUCT_ID.

In addition, for CUR_NET_RATE, the additional Balance Weighted Rate, WAVG_CUR_NET_RATE_LEDGER_INSTRUMENTS, is calculated as the Weighted AVG by CUR_PAR_BAL.

- Ledger Instrument Number of Records Trend Total Records Ledger Instruments aggregated by AS_OF_DATE.
- Ledger Instrument
 Granular table records at ACCOUNT_NUMBER level.



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Figure 5-24 Processing Instrument Data – Ledger Instruments

5.5 Processing Instrument Supplementary Data

You can use this report to perform the analysis on the Processing Area Tables related to Instrument Data. The report contains specifically the below Processing Database Objects:

Table 6: Processing Instrument Supplementary Data

Table 5-6	Processing Instrumer	nt Supplementary Data
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Report Name	Scope	Table Layer	Physical Table List	Logical Table List	Report Canvas Name
Processing Instrument Supplementary	Instrument Supplementary	FSI–Processing	FSI_D_ACCOU NT_INDEX_HI ST	Account Index History	Account Index History
Data			FSI_D_ACCOU	Account Rate Tiers	Account Rate Tiers
			NT_RATE_TIE RS	Embedded Options	Embedded Options
			FSI_D_EMBED	Schedule	Schedule
			DED_OPTION S_SCH	Payment Schedule	Payment Schedule
			FSI_D_PAYME NT_SCHEDUL E		

5.5.1 Account Index History

The Account Index History Report provides the analysis capability on the Account Index History Table.

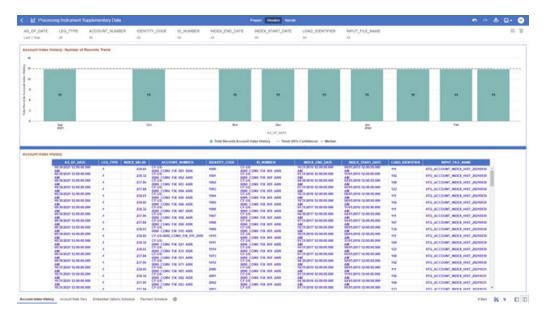


You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

The report displays the underlying data according to the following Charts' logic:

- Account Index History Number of Records Trend Total Records Account Index History aggregated by AS_OF_DATE.
- Account Index History Granular table records at ACCOUNT_NUMBER level.

Figure 5-25 Processing Instrument Supplementary Data – Account Index History



5.5.2 Account Rate Tiers

The Account Rate Tiers Report provides the analysis capability on the Account Rate Tiers Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Account Rate Tiers Number of Records Trend Total Records Account Rate Tiers aggregated by AS_OF_DATE.
- Account Rate Tiers Granular table records at ACCOUNT_NUMBER level.



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Figure 5-26 Processing Instrument Supplementary Data – Account Rate Tiers

5.5.3 Embedded Options Schedule

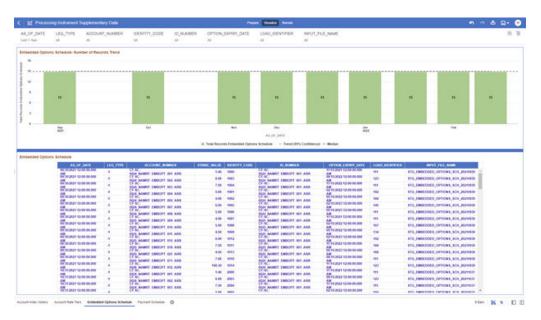
The Embedded Options Schedule Report provides the analysis capability on the Embedded Options Schedule Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Embedded Options Schedule Number of Records Trend Total Records Embedded Options Schedule aggregated by AS_OF_DATE.
- Embedded Options Schedule Granular table records at ACCOUNT_NUMBER level.



Figure 5-27 Processing Instrument Supplementary Data – Embedded Options Schedule



5.5.4 Payment Schedule

The Payment Schedule Report provides the analysis capability on the Payment Schedule Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Payment Schedule Number of Records Trend Total Records Payment Schedule aggregated by AS_OF_DATE.
- Payment Schedule Granular table records at ACCOUNT_NUMBER level.



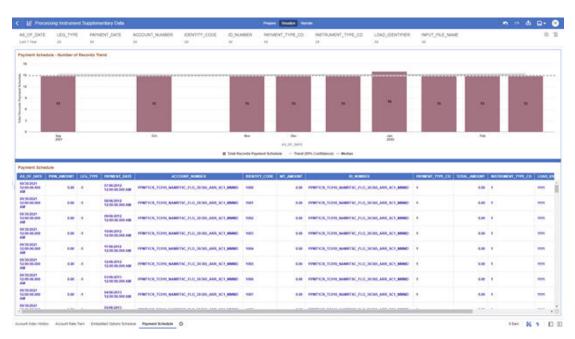


Figure 5-28 Processing Instrument Supplementary Data – Payment Schedule

5.6 Processing Ledger Data

You can use this report to perform analysis on the Processing Area Tables related to Ledger Data. The report contains specifically the following Staging Database Objects:

Table 7: Staging Ledger Data Reports

Table 5-7 Staging Ledger Data Reports

Processing Ledger DataLedgerFSI-ProcessingFSI_D_MANAG ERManagement LedgerManagement LedgerPlaceholder FSI_D_MANAGPlaceholder ManagementManagement Ledger 01Management Ledger 01FSI_D_MANAG ER_01Management Ledger 02Ledger 01 Management Ledger 02Management Ledger 02FSI_D_MANAG ER_02Management Ledger 02Management Ledger 03Placeholder FSI_D_MANAG ER_03Placeholder PlaceholderManagement Ledger 03Management EMENT_LEDG ER_03Management PlaceholderManagement Ledger 03FSI_D_MANAG ER_03Placeholder PlaceholderManagement Ledger 03FSI_D_MANAG ER_03Placeholder PlaceholderManagement Ledger 04FSI_D_MANAG ER_04Management Ledger 04Management Ledger 05FSI_D_MANAG ER_04Management Ledger 05Management Ledger 05



5.6.1 Management Ledger

The Management Ledger Report provides the analysis capability on the Management Ledger Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

The report displays the underlying data according to the following Charts' logic:

- Management Ledger Number of Records Trend Total Records Management Ledger aggregated by AS_OF_DATE.
- Management Ledger
 Granular table records at FINANCIAL_ELEM_ID level.

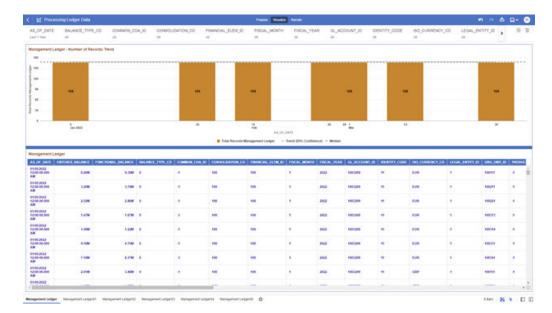


Figure 5-29 Processing Ledger Data – Management Ledger

5.6.2 Management Ledger01

The Management Ledger01 Report provides the analysis capability on the Placeholder Management Ledger 01 Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Management Ledger01 Number of Records Trend Total Records Management Ledger01 aggregated by AS_OF_DATE.
- Management Ledger01
 Granular table records at FINANCIAL_ELEM_ID level.



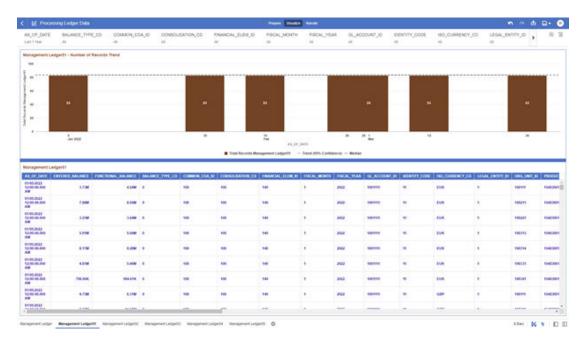


Figure 5-30 Processing Ledger Data – Management Ledger01

5.6.3 Management Ledger02

The Management Ledger02 Report provides the analysis capability on the Placeholder Management Ledger 02 Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Management Ledger02 Number of Records Trend Total Records Management Ledger02 aggregated by AS_OF_DATE.
- Management Ledger02
 Granular table records at FINANCIAL_ELEM_ID level.



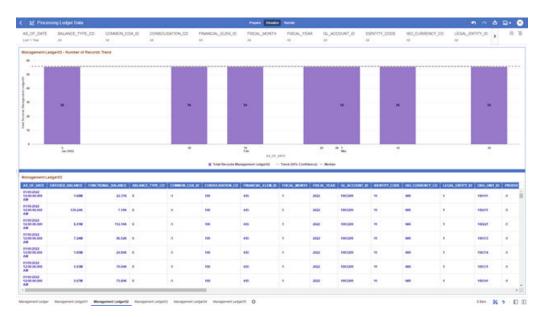


Figure 5-31 Processing Ledger Data – Management Ledger02

5.6.4 Management Ledger03

The Management Ledger03 Report provides the analysis capability on the Placeholder Management Ledger 03 Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Management Ledger03 Number of Records Trend Total Records Management Ledger03 aggregated by AS_OF_DATE.
- Management Ledger03 Granular table records at FINANCIAL_ELEM_ID level.



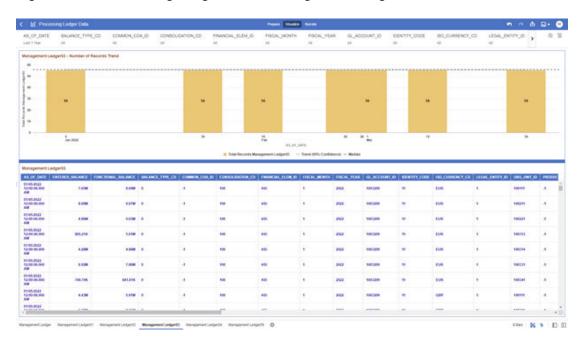


Figure 5-32 Processing Ledger Data – Management Ledger03

5.6.5 Management Ledger04

The Management Ledger04 Report provides the analysis capability on the Placeholder Management Ledger 04 Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Management Ledger04 Number of Records Trend Total Records Management Ledger04 aggregated by AS_OF_DATE.
- Management Ledger04
 Granular table records at FINANCIAL_ELEM_ID level.



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Figure 5-33 Processing Ledger Data – Management Ledger04

5.6.6 Management Ledger05

The Management Ledger05 Report provides the analysis capability on the Placeholder Management Ledger 05 Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Management Ledger05 Number of Records Trend Total Records Management Ledger05 aggregated by AS_OF_DATE.
- Management Ledger05
 Granular table records at FINANCIAL_ELEM_ID level.



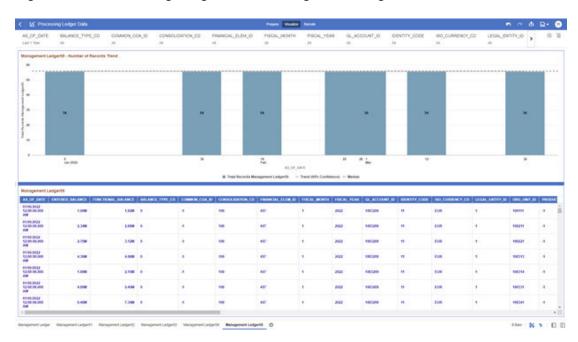


Figure 5-34 Processing Ledger Data – Management Ledger05

5.7 Processing Transaction Summary Data

You can use this report to perform the analysis on the Processing Area Tables related to Transaction Summary Data.

The report contains specifically the following Staging Database Objects:

 Table 5-8
 Staging Transaction Summary Data Reports

Report Name	Scope	Table Layer	Physical Table List	Logical Table List	Report Canvas Name
Processing Transaction Summary Data	Transaction Summary	FSI–Processing		Asset Transaction Summary Liability Transaction Summary Fee Based and Other Services Transaction Summary Off Balance Sheet	Assets Transaction Summary Liabilities Transaction Summary Fee Based Services Transaction Summary Off Balance Sheet
				Transaction Summary	Transaction Summary

5.7.1 Asset Transaction Summary

The Asset Transaction Summary Report provides the analysis capability on the Assets Transaction Summary Table.



You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

The report displays the underlying data according to the following Charts' logic:

- Assets Transaction Summary Number of Records Trend Total Record Assets Transaction Summary aggregated by AS_OF_DATE.
- Assets Transaction Summary
 Granular table records at ID_NUMBER level.

Figure 5-35 Processing Transaction Summary Data - Asset Transaction Summary



5.7.2 Liabilities Transaction Summary

The Liabilities Transaction Summary Report provides the analysis capability on the Liability Transaction Summary Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Liabilities Transaction Summary Number of Records Trend Total Record Liability Transaction Summary aggregated by AS_OF_DATE.
- Liabilities Transaction Summary Granular table records at ID_NUMBER level.



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R: Col Court R: Wolker Windowski R: Wolker M Million Court Million Court Million Court		32.498 37.598 37.598 14.798 32.898 32.898 42.398	• • • • • • • • • • • • • • • • • • •		1.000 BRANC CON 100 100 100 100 100 000 000 000 000 00	CONC. 10.2544655 CONC.35 CONC.35 CONC.34 CONC.34 CONC.34 CONC.34 CONC.34 CONC.34	2003/0000049/200 0100 0100 0100 0100 0100 0100	MALINITAL MALINITAL A A A A A A A A A A A A A A A A A A A A A A	* * * * *	* * * * * * * * * * * * *	• • • • •	4 4 4 4 4 4 4 4	¥.084)

Figure 5-36 Processing Transaction Summary Data – Liabilities Transaction Summary

5.7.3 Fee Based Services Transaction Summary

The Fee Based Services Transaction Summary Report provides the analysis capability on the Fee Based and Other Services Transaction Summary Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Fee Based Services Transaction Summary Number of Records Trend Total Record Fee Based Services Transaction Summary aggregated by AS_OF_DATE.
- Fee Based Services Transaction Summary Granular table records at ID_NUMBER level.





Figure 5-37 Processing Transaction Summary Data – Fee Based Services Transaction Summary

5.7.4 Off Balance Sheet Transaction Summary

The Off Balance Sheet Transaction Summary Report provides the analysis capability on the Off Balance Sheet Transaction Summary Table.

You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

- Off Balance Sheet Transaction Summary Number of Records Trend Total Record Off Balance Sheet Transaction Summary aggregated by AS_OF_DATE.
- Off Balance Sheet Transaction Summary Granular table records at ID_NUMBER level.



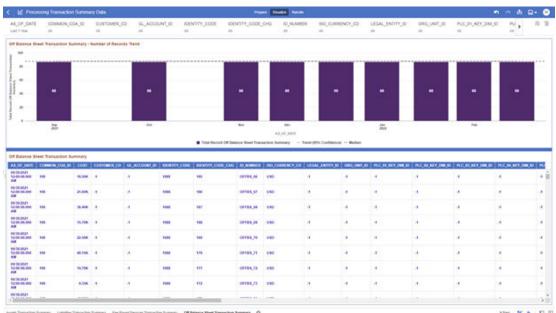


Figure 5-38 Processing Transaction Summary Data – Off Balance Sheet Transaction Summary

Con Summary Off Balance Meet Transaction Summary ()

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6 Cash Flow Report

This module discusses the procedure for viewing the Input and Output Data for an instrument.

Topics:

- Overview of Cash Flow Report
- Viewing Cash Flow Report
- Downloading Cash Flow Report

6.1 Overview of Cash Flow Report

The Cash Flow Report UI allows you to view the reports with the following information:

- 1.
- 2. View the report for following input information about the selected instrument as follows:
 - Instrument Attributes
 - Payment Schedule, if applicable
 - Rate Tiers, if applicable
 - Embedded Options Schedule, if applicable
 - Index History, if applicable
- **3.** View the report for the following output information about the selected instrument as follows:
 - Cash Flow
 - Forecast Interest Rate Curve, if applicable
 - Forecast Economic Indicator, if applicable
 - Messages logged during processing

The Cash Flow Report Summary Page allows you to do the following:

- Viewing Cash Flow Report. For more information, see the Viewing Cash Flow Report section.
- Downloading the report in CSV or Excel. For more information, see the Downloading Cash Flow Report section.

The account number based on the search criteria are listed here. This is the search section that contains multiple parameters. You can specify one or multiple search criteria in this section. It is mandatory to select a Process and Execution ID to view the report. When you click Search, depending upon the search criteria, this filters and displays the relevant search combination parameters under the Cash Flow Report Summary as a list. You can perform search on the following search criteria:

As of Date



- Process Name
- Execution ID
- Legal Entity
- Products
- Currency
- Account Number

The Cash Flow Report Summary Page displays the following columns:

Table 6-1	Cash Flow Process rule – Fields and Descriptions
Table 0-1	cash Flow Flocess fulle - Fleius and Descriptions

Column	Description
Account Number	Displays the Account Number of Cash Flow Report
As of Date	Displays the As of Date of the Instrument
Legal Entity	Displays the Legal Entity of the Instrument
Product	Displays the Product
Currency	Displays the Currency of the Instrument

6.2 Viewing Cash Flow Report

To view Cash Flow Report of an account, perform the following steps:

- 1. Navigate to the Cash Flow Report Summary Page.
- Apply search criteria to get list of account numbers that are available. It is mandatory to select a Process and Execution ID to view the report. Click on an account number to view report. The Cash Elow Report is displayed

The Cash Flow Report is displayed.

- **3.** Select **Input** Section. Here, you can view the Input information for the following fields:
 - Instrument Attributes: Displays the Input Data from Instrument Tables for selected ACCOUNT_NUMBER and AS_OF_DATE. Attributes have been grouped into multiple categories to simplify viewing. Select the Category, Version, and Leg Type. Leg Type drop-down list is applicable for Derivative Accounts.
 - **Payment Schedule:** Displays the Input Data from FSI_D_PAYMENT_SCHEDULE (order by PAYMENT_DATE) for selected ACCOUNT_NUMBER and AS_OF_DATE in Table format. This is applicable if the Amortization type is Payment Schedule (800, 801, 802).
 - **Rate Tiers:** Displays the Input Data from FSI_D_ACCOUNT_RATE_TIERS (order by rank) for selected ACCOUNT_NUMBER and AS_OF_DATE in table format. This is applicable if the Adjustable type is Tiered Rate (300)
 - Embedded Options Schedule: Displays the Input Data from FSI_D_EMBEDDED_OPTIONS_SCH (order by option_expiry_date) for selected ACCOUNT_NUMBER and AS_OF_DATE in table format. This is applicable if Embedded Options Flag is Yes and the Option Exercise Type is Bermudan.



 Index History: Displays the Input Data from FSI_D_ACCOUNT_INDEX_HIST (order by INDEX_START_DATE) for selected ACCOUNT_NUMBER and AS_OF_DATE in table format. This is applicable if Index Adjustment Type is not 'Not Applicable' and Index ID is null or zero.

Note:

You can download the data in CSV or Excel format.

- 4. Select **Output** section. Here, you can view the Output information for the following fields:
 - Cash Flow: Displays the Output from FSI_O_CFE_OUTPUT_HIST for selected ACCOUNT_NUMBER, AS_OF_DATE, and EXECUTION_RUN_ID in table format. Here, you can Order by data of the SCENARIO_NUM, LEG_TYPE, SPLIT_ID, RECORD_SEQUENCE.
 - Forecast Interest Rate: Displays the Output from FSI_O_FCAST_IRC_RATES_HIST for selected PROCESS_ID and EXECUTION_RUN_ID. Here, you can Order by data of the SCENARIO_NUMBER, INTEREST_RATE_TERM_DAYS. You can compare the Forecast Rates across the scenario. You can select interest rate from INTEREST_RATE_CD drop-down list. Data appears here if Forecast Rates has been selected in Cash Flow Process and Interest Rate Curve(s) have been selected under Calculation Elements.
 - Forecast Economic Indicator: Displays the Output from FSI_O_FCAST_ECO_IND_RATES_HIST for selected PROCESS_ID and EXECUTION_RUN_ID. You can filter Economic Indicator from Economic Indicator Name drop-down list to display data. You can compare the Forecast Economic Indicator across the scenario. Here, you can Order by data of the SCENARIO_NUMBER, RATE PERIOD. Data appears here if Forecast Rates has been selected in Cash Flow Process and Economic Indicator(s) have been selected under Calculation Elements.
 - Message Log: Displays the Output from FSI_O_CFE_MESSAGES_HIST for selected ACCOUNT_NUMBER, and EXECUTION_RUN_ID in table format.

6.3 Downloading the Report

You can download the Cash Flow Report in CSV or Excel format.

To download the report, follow these steps:

- 1. Navigate to Cash Flow Report and select the Input or Output Section.
- 2. Click the **Download** link. The report will be downloaded.



7 Data Insights

To access the Data Insights Report, select Analytics from the LHS Menu, and then select Data Insights.

7.1 Cash Flow Edits

The Cash Flow Edits Process allows you to verify the accuracy and check the completeness of your Instrument Table Data.

The Cash Flow Edits is arranged as a set of reports catering to analysis of the following categories:

- "Rules"
- "Process Stats"
- "Message Log"

7.1.1 Common Filters

Topics:

- "Rules" Canvas Prompt Filters
- "Process Stats" Canvas Prompt Filters
- "Message Log" Canvas Prompt Filters

7.1.1.1 "Rules" Canvas Prompt Filters

You can use a series of Report Prompts to filter the data according to Functional Key Attributes as described below:

Figure 7-1 Canvas Prompt Filters for key Attributes

Group Name	Subgroup Name	Rule Name	Rule Identifier	Condition Columns
All	All	All	All	All

- Group Name: You can use this filter to select a specific Group value related to the available granular rules
- Subgroup Name: You can use this filter to select a specific Subgroup value related to the available granular rules
- Rule Name: You can use this filter to select a specific Rule value
- Rule Identifier: You can use this filter to select a specific Rule Identifier value
- Rule Condition Columns: You can use this filter to select a specific Condition value related to the available granular rules



7.1.1.2 "Process Stats" Canvas Prompt Filters

You can use a series of Report Prompts to filter the data according to Functional Key Attributes as described below:

Figure 7-2 Canvas Prompt Filters for Time Dimension

 Processor Execution As Of Date
 Processor Execution As of Date (Year)
 Processor Execution As of Date (Quarter)
 Processor Execution As of Date (Month)
 Processor Execution As of Date (Date)

 Last 2 Quarters
 All
 <t

 Processor Execution As of Date: The Execution Period of the Cash Flow Edit process. You can use this filter to isolate a selected timeframe for the analysis. The following screenshot displays the possible options that this filter provides against the Time Dimension.

Figure 7-3 As of Processor Execution Date Selection

Processor Execution As	s Of Date
Last 2 Quarters	
Relative Time	
Туре	Last
Increment	2
Time Level	Quarters
Relative To	Years
	 Quarters
	Months
	Weeks
	Days
	Hours
	Minutes
	Seconds

- Additional Filters for the Time Dimension as follows:
 - Processor Execution As of Date (Year)
 - Processor Execution As of Date (Quarter)



- Processor Execution As of Date (Month)
- Processor Execution As of Date (Day)

Figure 7-4 Canvas Prompt Filters for Standard Dimension

Cashflow Edits Process Name	Execution Run Identifier	Legal Entity Leaf Name	Source Table Name
All	All	All	All

- Cashflow Edits Process Name: You can use this filter to select a specific Cashflow Edit Process value
- Execution Run Identifier: You can use this filter to select a specific Execution Run Identifier value at leaf related to the Cashflow Edits Process
- Legal Entity Leaf Name: You can use this filter to select the Legal Entity Leaf Name that is related to the Cashflow Edit Process execution
- Source Table Name: You can use this filter to select a specific Source Table value related to the to the Cashflow Edit Process execution

7.1.1.3 "Message Log" Canvas Prompt Filters

You can use a series of Report Prompts to filter the data according to Functional Key Attributes as described below:

Figure 7-5 Canvas Prompt Filters for Standard Dimension

Processor Execution As of Date (Day)	Cashflow Edits Process Name	Execution Run Identifier	Account Number
All	All	All	All

- Processor Execution As of Date (Day): The Execution Period of the Cash Flow Edit process. You can use this filter to isolate a selected timeframe for the analysis
- Cashflow Edits Process Name: You can use this filter to select a specific Cashflow Edit Process value
- Execution Run Identifier: You can use this filter to select a specific Execution Run Identifier value at leaf related to the Cashflow Edits Process
- Account Number: You can use this filter to select a specific Account Number value related to the to the Cashflow Edit Process execution

7.1.2 Report Data Action

The Data Actions provide the capability to perform drill down analysis across the downstream report canvases. The drill down is enabled via a data action.

From "Rules" and "Process Stats" report canvases charts, you can select a combination of values, and then perform the navigation to the "message Log" report canvas.

In order to do so, with a right click on the chart selection, the data action options will appear for you to be able to navigate further as described in the following mapping:

 Navigate to Message Log – the Data Action will be drilling through the "Message Log" canvas.



The following screenshots show the Data Action list as well as the navigation options that appears once you right click on the desired selection.

Data Actions			
Actions			0
Navigate to Message Log	g		×
Name	Navigate	to Message	Log
Туре	Analytics	Link	•
Anchor To	Select Da	ta	o
Target	This Proje	ct	
Canvas Link	Message	e Log	•
Pass Values	All		•
Supports Multiple Selection	On		
		Cancel	ОК

Figure 7-6 Data Action configuration

roup Na	me S Al	ubgroup Name Rule Name Rule Identifier	Condition Columns								9
	Name: Negat Iber of Ru	Select Group		r Mortgage Offset 78s Annuity Behavio Lease Adjustment Interest	ur Pa Effe Timir	ettern ective Dat g elected e Selected		Rule Ment 15 16 18 19 28 29	egative Antoritzation Indu Kasea Investi Regerine Amerikasion Canal Investi Regerine Amerikasion Canal Investi Regerine Amerikasion Papenet Change fr Investi Regerine Amerikasion Papenet Change fr Regerine Amerikasion Equatization Farepursty C Regerine Amerikasion Equatization Date - Margin Regerine Amerikasion Equation Date - Margin Regerine Amerikasion Date - Margin Regerine Amerikasio	quency quency Multiplier Jon Date or As of Date Date zation Payment Decrease Limit (L	
		ive Amortization			Drill to a	Attribute/Hierarchy	igative Amortiza	ation			
Rule	Rule Condition	Condition Columns	Condition Statement	Columns Updated by Rule	Naviga	te to Message Log	ntifier	Message Identit		Message Type Description	h -
5	Identifier	AMRT_TYPE_CD#NEG_AMRT_EQ_MULT	CASE WHEN (AMRT_TYPE_CD = 60 AND (NEG_AMRT_EQ_MULT is NU) or NEG_AMRT_EQ_MULT not in ('D	0	Use as Add Sta		•	16	Negative Amortization Equalization Frequency multiplier must be D, M, or Y Negative Amortization limit value does not fall in a valid range (0 to 200), Applicable to Negative amortization	Warning	
6	16	AMRT_TYPE_CD#NEG_AMRT_LIMIT	'M', 'Y'))) THEN'P' ELSE 'F' END CASE WHEN (AMRT_TYPE_CD = 60 and (NEG_AMRT_LIMIT is NULL or NEG_AMRT_LIMIT >= 200 or NEG_AMRT_LIMIT >= 200 or	0 NEG_AMRT_LIMIT	Color Edit		b	19	instruments only Payment Change Frequency cannot be negative, Applicable to Negative amortization instruments only	Warning	
8	18	AMRT_TYPE_CDHNEG_AMRT_PMT_CHG_FREQ	ELSE T END CASE WHEN (AMRT_TYPE_CD = 60 and (NEG_AMRT_PMT_CHG_FREQ NULL or NEG_AMRT_PMT_CHG_FREQ < 0))	IS NEG AMRT PMT CHG FREQ	Delete	Visualization 28		20	Negative Amortization Payment Change Frequency Multiplier must be D, M, or Y Negative amorization equalization frequency cannot be negative, Applicable to Negative amortization instruments only	Warning Warning	
,	19	AMRT_TYPE_CDWNEG_AMRT_PMT_CHG_FREQ_MULT	THEN 'P' ELSE 'F'END CASE WHEN (AMRT_TYPE_CD = 60 and (NEG_AMRT_PMT_CHG_FREQ_MU is NULL or	NEG AMRT PMT CHG FREQ MUL	,	29		30	Negative Amortization equalization date is less than origination date (huture origination) or less than the as-of-date (past origination), Applicable to Negative Amortization instruments only	Warning	
			NEG_AMRT_PMT_CHG_FREQ_MUI not in ('D', 'M', 'Y')) THEN 'P' ELSE END CASE WHEN (AMRT_TYPE_CD = 60	6'		30		31	Negative Amortization equalization date is after Maturity Date, Applicable to Negative Amortization instruments only Payment decrease life is expressed as a	Warning	
	28	AMRT_TYPE_CD#NEG_AMRT_EQ_FREQ	and (NEG_AMRT_EQ_FREQ is NUL or NEG_AMRT_EQ_FREQ < 0)) THE 'P' ELSE 'F' END CASE WHEN (AMBT_TYPE_CD = 60	NEG_AMRT_EQ_FREQ		37		38	percent of a original payment, Applicable to negative amortization instruments only Payment increase life is expressed as a	Warning	
•	29	AMRT_TYPE_CD#NEG_AMRT_EQ_FREQ#NEG_AMRT_EQ_	and NEG_AMRT_EQ_FREQ is not null and NEG_AMRT_EQ_FREQ > 0		N	38		39	percent of a original payment, Applicable to negative amortization instruments only. Negative Amortization Payment Adjustment Date is less than the as-of- date (past origination), Applicable to	Warning	
		AMRT TYPE CONNEG AMRT EQ FREQUINEG AMRT EQ	CASE WHEN (AMRT_TYPE_CD = 60 and NEG_AMRT_EQ_FREQ is not NULL and NEG_AMRT_EQ_FREQ > and NEG_AMRT_EQ_DATE >			45		46	negative amortization instruments only Negative Amortization Payment adjustment date is less than origination	Warning	

Figure 7-7 Data Action for Drill down with report Canvases

7.1.3 Rules

The "Rules" Report provides a view of the available Rules to be leveraged by the Cash Flow Edits processes. You can use the report to identify the list of the available rules within the Application as well as to look at their grouping and subgrouping with the granular details for Conditions and Messages.

You can use a series of Report Prompts, as previously described, to filter the data according to key attributes pertaining to the underlying Cash Flow Edit messages.

The report displays the underlying data according to the following Chart' logic:

- Number of Rules The chart provides you with the total Number of Rules available within the Application
- Select GroupThe chart provides you with a selection capability for the desired Group of rules
- Select SubgroupThe chart provides you with a selection capability for the desired Subgroup of rules
- Rules

The chart reports the list of rules available within the Application.

The columns displayed in the chart are the following:

- Rule Identifier
- Rule Name
- Conditions

The chart reports the list of conditions defined for each of the rules available within the Application.

The columns displayed in the chart are the following:



- Rule Identifier
- Rule Condition Identifier
- Condition Columns
- Condition Statements
- Messages

The chart reports the list of log messages defined for each of the rules available within the Application.

The columns displayed in the chart are the following:

- Rule Identifier
- Message Identifier
- Message Description
- Message Type Description

Figure 7-8 "Rules" Report

roup N	ame Su Al	ubgroup Name Rule Name Rule Identifier All All	Condition C All	olumns							R
Nur	nber of Rul	les 😯 Select Group		Select Subgroup				Rules			
	2t	Transfor Prising	w		iour Pa nt Effe at Timin	ctive Date		Rule identifier Or 1 Or 2 Cx 3 Or 4 Cx 5 Cx 6 Im 7 Im 8 Im 9 Im	Rate Name Upon Tens > Anorchadon Tens mente Par Balance > Colorido Par Balance Mente Caureett Balance > Defense Original Balan mente Na Bala > 0 antil Accanati Banis alid Amortatation Type alid Amortatation Type	0	•
nditic	ons					Messages					
Rule	Rule	Condition Columns		Condition Statement		Rule Identifier		Measage Identifier	Measage Description	Message Type Description	
entifier	Mentifier 1	AMRT_TYPE_CD#AMRT_TERM#AMRT_TERM_MULT#ORG_	amrt_term ⇔ 0)) A	hype_cd <> 700 OR (armt_type_cd = 700 AND ND (CASE armt_term_mail WHEN "* THEN armt_term N armt_term * 30.41667 ELSE armt_term END) <	AMRT,	1 2	2		Amortization term can only be equal to zero on Non-Amortizing instruments Instrument has originated in past but Current Par Balance and Original Par Balance are equal	Warning	
	2	ORIGINATION_DATE#AS_OF_DATE#CUR_PAR_BAL#ORG_I	CASE WHEN (ORIGI out NULL and ORG	(CASE org_term_mailt WHEN 'T' THEN org_term '' 365 WHEN 'M' THEN org_term '' 3041687 ELSE org_term END THEN 'D' ELSE 'T' END CASE WHEN (ORIGINATION, DATE ' AS_OFTE and CUR_PAR_BAL II NOT NULL and CUR_PAR_BAL IS NOT NULL and CUR_PAR_BAL =		3	4		Instrument has originated in past but Deferred Current Balance and Deferred Original Balance are equal	Warning	
			ORG_PAR_BAL) THEN 1P ELSE 1P END CASE WHEN (ORIGINATION_DATE < AS, OF, DATE and DEFERRED CUR, BAL is not NULL and DEFERRED. ORG, BAL is no			4	6		Current gross rate is negative Current net rate is negative	Info Info	
	3	ORIGINATION_DATE#AS_OF_DATE#DEFERRED_CUR_BAL	NULL and DEFERRE ELSE 'F' END	AL IS NOT NULL AND DEPENNED_ONG_BAL IS NOT ED_CUR_BAL = DEPERRED_ORG_BAL) THEN 'P'			7		Accrual basis code must be between 1 and 7 inclusively	Warning	
	4	CUR_GROSS_RATE	CASE WHEN (CUR THEN 'P' ELSE 'T' E	GROSS_RATE is NULL or CUR_GROSS_RATE < 0)		7	8		Amortization type must be a valid OFSAA	Warning	
	6	CUR_NET_RATE	CASE WHEN (CUR_ ELSE 'P' END	NET_RATE IS NULL OF CUR_NET_RATE < 0) THEN 'P'					Amortization type in Payment Pattern but	Warning	
	6	ACCRUAL_BASIS_CD	CASE WHEN (ACCR	RUAL_BASIS_CD is NULL or ACCRUAL_BASIS_CD <1 S_CD >7) THEN 'P' ELSE 'F' END	ACCR		10		Payment Pattern Code is invalid Amortization type is Payment Pattern but	Warning	
	7	AMRT_TYPE_CD	400, 600, 700, 710, 8	TYPE_CD is NULL or AMRT_TYPE_CD not in (100, 00, 801, 802, 820, 840, 850, 20, 10)) THEN 'P' ELSE 'P'	AMRT,	10	- 11		Payment Pattern definition does not exist Amortization type is Behaviour Pattern but Behaviour Pattern Code is invalid	Warning	
	8	AMRT_TYPE_COMPMT_PATTERN_CD	END CASE WHEN (AMRT	TYPE_CD = 20 and (PMT_PATTERN_CD is null or <= 0) THEN 'P' ELSE 'F' END	AMRT	11	12		Amortization type is Behaviour Pattern but Behaviour Pattern definition does not	Warning	
	9	AMRT_TYPE_CD#PMT_PATTERN_CD#NA	CASE WHEN (AMRT	<= (0) THEN 'P' ELSE 'P' END [_TYPE_CD = 20 and PMT_PATTERN_CD is not null _CD > 0 and PMT_PATTERN_CD not in (select on fis) payment pattern) THEN 'P' ELSE 'P END	AMRT	12	13		exist Cannot find record with matching ID Number, identity Code and Instrument Type Code in Payment Schedule table	Warning	
	10	AMRT_TYPE_CD#BEHAVIOUR_PATTERN_CD	CASE WHEN JAMPT	ITYPE_CD = 10 and (BEHAVIOUR_PATTERN_CD is PATTERN_CD <= 0) THEN 'P' ELSE 'T' END	AMRT,	13	14		Origination Date is greater than highest date in Payment Schedule	Warning	
			CASE WHEN (AMRT	TYPE_CD = 10 and BEHAVIOUR_PATTERN_CD is WIOUR_PATTERN_CD > 0 and		14	15		Amortization term multiplier must be D, M, or Y	Warning	
	11	AMRT_TYPE_CO#BEHAVIOUR_PATTERN_CD		RN_CD not in (SELECT V_OBJ_CODE FROM A LOADER VW_SYN WHÊRE V_OBJ_TYPE_CODE =	AMRT	15	16		Negative Amortization Equalization Frequency multiplier must be D, M, or Y	Warning	
	1					16	17		Negative Amortization limit value does not fall in a valid range (0 to 200).	Warning	

7.1.4 Process Stats

The "Process Stats" Report provides a view of the available statistics related to the execution of the Cash Flow Edits processes. You can use the report to identify the number of errors and the aggregated details for the Cash Flow Edits executed out of the underlying Instrument table account data.

You can use a series of Report Prompts, as previously described, to filter the data according to key attributes pertaining to the underlying Cash Flow Edit messages.

The report displays the underlying data according to the following Chart' logic:

Cashflow Edits found



The chart reports the trend analysis of the Number of Errors for each Cash Flow Edit execution with respect to Processor Execution As of Date and the Message Type received during the executions.

The columns displayed in the chart are the following:

- Processor Execution As of Date (Day)
- Cashflow Edits Process Name
- Execution Run Identifier
- Message Type Description
- Number of Errors

• Processing Time (in Mins)

The chart reports the trend analysis of the Processing Time for each Cash Flow Edit execution with respect to Processor Execution As of Date.

The columns displayed in the chart are the following:

- Processor Execution As of Date (Day)
- Cashflow Edits Process Name
- Execution Run Identifier
- Processor Execution Time In Minutes

Number of Errors

The chart reports the trend analysis of the Number of Errors for each Cash Flow Edit execution with respect to Processor Execution As of Date.

The columns displayed in the chart are the following:

- Processor Execution As of Date (Day)
- Cashflow Edits Process Name
- Execution Run Identifier
- Number of Errors

• Number of Errors by Source Table Name

The chart reports the trend analysis of the Number of Errors for each Cash Flow Edit execution with respect to Processor Execution As of Date and the Source Table Name where the errors have been identified.

The columns displayed in the chart are the following:

- Processor Execution As of Date (Day)
- Cashflow Edits Process Name
- Execution Run Identifier
- Source Table Name
- Message Type Description
- Number of Errors

Number of Errors by Rule Groups

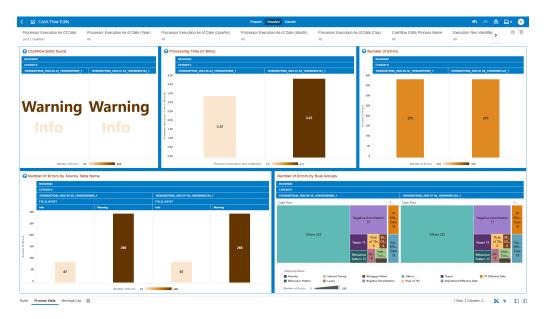
The chart reports the trend analysis of the Number of Errors for each Cash Flow Edit execution with respect to Processor Execution As of Date and the Rule Group/Subgroup.

The columns displayed in the chart are the following:

Processor Execution As of Date (Day)

- Cashflow Edits Process Name
- Execution Run Identifier
- Group Name
- Subgroup Name
- Number of Errors

Figure 7-9 "Process Stats" Report



7.1.5 Message Log

The "Message Log" Report provides a view of the underlying Cash Flow Edits messages retrieved during the Cash Flow Edit Process execution, and the available granularity is at Customer Accounts level.

You can use a series of Report Prompts, as previously described, to filter the data according to key attributes pertaining to the underlying Cash Flow Edit messages.

The report displays the underlying data according to the following Chart' logic:

Message Log

The tabular report displays all the message details related to the execution of the Cash Flow Edit process, including information related to the Customer Account details.

Following the granular elements available for this table chart:

 "Cashflow Edits Process Name", "Processor Execution As of Date (Day)", "Execution Run Identifier", "Account Number", "Source Table Name", "Rule Name" and "Message Description".



Cash Flow Edits			Prepare Visualize Narrate			n a 🖞 🖻
rocessor Execution As of Date	(Day) Cashflow Edits Proces All	is Name Execution Run Identifier All	Account Number			≡ 6
lessage Log						
Cashflow Edita Process Name	Processor Execution As of Date (Day)	Execution Run Identifier	Account Number	Source Table Name	Rule Name	Message Description
CPEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DNM0_2:N716	FSLD_ASSET	Adjustable Negative Amortization instrument has Reprice Frequency = 0	Reprice Frequency cannot be zero fo Adjustable Negative Amortization instrument
CFEEDITS	66/30/2022	1656602075940_2022-06-30_1656602095009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DMM0_2:N716	FSI_D_ASSET	Adjustable Rate instrument has invalid Interest Rate Code	Interest rate code must be valid for adjustable rate instruments
FEEDITS	06/30/2022	1656602075940_2022-06-30_1656602096009_1	\$16_TC053_PPRCONV_ADJ_A/365_ADV_SC4_DMM0_2:N716	FSLD_ASSET	Adjustable Type is fixed rate for Negative amortization instrument	Negative amortization instruments cannot have fixed adjustable type co
CPEEDITS	06/30/2022	1656602075940_2022-06-30_1656602096009_1	\$16_TC033_PPRCONV_ADJ_A/366_ADV_\$C4_DMM0_2:N716	FSLD_ASSET	Adjustable Type is not fixed but Reprice Frequency is 0	Repricing frequency and adjustable type code are inconsistent
TEEDITS	06/30/2022	1656602075940_2022-06-30_1656602096009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DMM0_2/N716	FSLD_ASSET	Amortization Type / Accrual Basis Error	Accrual basis code cannot have a 30 day month assumption on instrumen with payment frequency multiplier in days or defined by a payment schedu
CPEEDITS	06/30/2022	1656602075940_2022-06-30_1656602096009_1	\$16_TC033_PPRCONV_ADJ_A/366_ADV_SC4_DMM0_2:N716	FSLD_ASSET	Amortization Type is conventional but interest timing is Advance	Interest type can only be arrears for conventionally amortizing instrument
FEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	S16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DMM0_2:N716	FSL_D_ASSET	Amortization type is Rule of 78's but Adjustable Type is not fixed	Rule of 78's instrument should only have a Fixed adjustable type code.
FEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	S16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DMM0_2:N716	FSI_D_ASSET	Amortization type is Rule of 78's but Reprice Frequency is not 0	Rule of 78's instruments are implicit fixed rate.
FEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DMM0_2:N716	FSI_D_ASSET	Balance on Last Reprice Date = 0	The balance as of the last repricing date cannot be equal to 0
FEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DMM0_2:N716	FSLD_ASSET	Behaviour Type Code is Null	Behaviour Type Code is Null, default to 1 (Non-Maturity)
FEEDITS	06/30/2022	1656602075940_2022-06-30_1656602096009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_\$C4_DMM0_2:N716	FSLD_ASSET	Calculated Offset Balance > Current Par Balance	Calculated Offset Balance is higher than Current Par Balance
FEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_\$C4_DMM0_2:N716	FSI_D_ASSET	Current Gross Rate < 0	Current gross rate is negative
FEEDITS	66/30/2022	1656602075940_2022-06-30_1656602095009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DMM0_2:N716	FSI_D_ASSET	Current Net Rate < 0	Current net rate is negative
FEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DMM0_2:N716	FSI_D_ASSET	Current Par Balance = 0	Instruments with Current Par Balance zero are not processed.
FEEDITS	06/30/2022	1656602075940_2022-06-30_1656602096009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DNM0_2:N716	FSLD_ASSET	Current Par Balance - Original Par Balance	Instrument has originated in past bu Current Par Balance and Original Pa Balance are equal
FEEDITS	66/30/2022	1656602075940_2022-06-30_1656602095009_1	\$16_TC053_PPRCONV_ADJ_A/365_ADV_SC4_DMM0_2:N716	FSLD_ASSET	Current Payment and Current Par Balance have opposite signs	Current payment and current par balance can not have opposite signs
FEEDITS	06/30/2022	1656602075940_2022-06-30_1656602096009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DMM0_2:N716	FSI_D_ASSET	Current Payment is greater than Life Pay Cap	Current payment is greater than the maximum payment amount. Applical to negative amortization instruments only
FEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DNM0_2:N716	FSI_D_ASSET	Current Payment is less than Life Pay Floor	Current payment is less than the minimum payment amount. Applicat to negative amortization instruments only
FEEDITS	06/30/2022	1656602075940_2022-06-30_1656602096009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DNM0_2:N716	FSI_D_ASSET	Deferred Current Balance = Deferred Original Balance	Instrument has originated in past bu Deferred Current Balance and Deferr Original Balance are equal
FEEDITS	06/30/2022	1656602075940_2022-06-30_1656602096009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DMM0_2:N716	FSLD_ASSET	Holiday calendar not given for B/252 accrual basis	Holiday calendar must be give when using Business/252 accrual basis
FEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DMM0_2:N716	FSLD_ASSET	Interest Payment Freq > Original Term	Interest Payment frequency cannot to greater than original term
FEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	\$16_TC033_PPRCONV_ADJ_A/365_ADV_SC4_DMM0_2:N716	FSI_D_ASSET	Interest Payment Frequency <= 0	Interest Payment frequency is less than or equal to zero, and both maturity date and origination date an valid dates and can be used to

Figure 7-10 "Message Log" Report

Rules Process Stats Message Log

744 Rows, 7 Columns 🛛 🙀 ቱ 📗 🗈



8 Processed Data Insights

To access the Processed Data Insights Reports, select Analytics from the LHS Menu, and then select Processed Data Insights.

8.1 Cash Flow Output

The Cash Flow Output allows you to get insight into projected cash inflows and outflows of your Balance Sheet.

The Cash Flow Output is arranged as a set of reports catering to analysis of the following categories:

- "Process Stats"
- "Runoff by KPDs"
- "Balances by KPDs"
- "Rates by KPDs"
- "Process Results Details"

8.1.1 Common filters

You can use a series of Report Prompts to filter the data according to Functional Key Attributes as described below:



• As of Date: The Execution Period for the output results. You can use this filter to isolate a selected timeframe for the analysis. The following screenshot displays the possible options that this filter provides against the Time Dimension.



As of Date		
Last 1 Quarter		
Relative Time		
Туре	Last	
Increment	1	
Time Level	Quarter	
Relative To	Year	
	 Quarter 	
	Month	
	Week	
	Day	

- Additional Filters for the Time Dimension as follows:
 - As of Date (Day)

Figure 8-3 Canvas Prompt Filters for Cashflow Output Process execution data

Number of Cashflow Projection in Years	Cash Flow Date	Cashflow Process Name	Execution Run Identifier	F Scenario Name	Currency Name
Full Range	Full Range	All	All	All	All

 Number of Cashflow Projection in Years: You can use this filter to select a specific Cashflow Projection period to be applied to the Cashflow Output Process execution data; i.e. for next two years of Cashflow Projection you can apply the following selection

Figure 8-4 Number of Cashflow Projection in Years

Number of	Cashflow Projection in Years
0 - 2	
Range	
Start	0 Min
End	2 Max



- Cash Flow Date: You can use this filter to select a specific Cashflow Date to be applied to the Cashflow Output Process execution data
- Cashflow Process Name: You can use this filter to select a specific Cashflow Process Name to be applied to the Cashflow Output Process execution data
- Execution Run Identifier: You can use this filter to select a specific Execution Run Identifier to be applied to the Cashflow Output Process execution data
- Scenario Name: You can use this filter to select a specific Scenario Name to be applied to the Cashflow Output Process execution data
- Currency Name: You can use this filter to select a specific Currency Name to be applied to the Cashflow Output Process execution data

Figure 8-5 Canvas Prompt Filters for Legal Entity key processing dimension

LE Hierarchy Name	🖡 Legal Entity Leaf Name
All	All

- LE Hierarchy Name: N.B. this is a mandatory filter for the group filtering on Legal Entity key processing dimension.
 As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same time, a mandatory driver to select "LE Hierarchy Name" must be selected with only a single value simultaneously.
- Legal Entity Leaf Name: You can use this filter to select the Legal Entity Leaf Name that is related to the Cashflow Output Process execution data.

Figure 8-6 Canvas Prompt Filters for Org Unit key processing dimension

ORG Hierarchy Name	📕 Org Unit Leaf Name
All	All

• Org Hierarchy Name: N.B. this is a mandatory filter for the group filtering on Org Unit key processing dimension. As the Application supports the creation of multiple hierarchies for the same Dimension of

analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same time, a mandatory driver to select "Org Hierarchy Name" must be selected with only a single value simultaneously.

• Org Unit Leaf Name: You can use this filter to select the Org Unit Leaf Name that is related to the Cashflow Output Process execution data.

Figure 8-7	Canvas Prompt Filters for Product key processing dimension

Prod Hierarchy Name
Prod Leaf Name

All

All

• Prod Hierarchy Name: N.B. this is a mandatory filter for the group filtering on Product key processing dimension.



As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same time, a mandatory driver to select "Prod Hierarchy Name" must be selected with only a single value simultaneously.

• Prod Leaf Name: You can use this filter to select the Prod Leaf Name that is related to the Cashflow Output Process execution data.

Figure 8-8 Canvas Prompt Filters for GL Account key processing dimension

GL Account Hierarchy Name
 GL Account Leaf Name
 All
 All

- GL Account Hierarchy Name: N.B. this is a mandatory filter for the group filtering on GL Account key processing dimension.
 As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same time, a mandatory driver to select "GL Account Hierarchy Name" must be selected with only a single value simultaneously.
- GL Account Leaf Name: You can use this filter to select the GL Account Leaf Name that is related to the Cashflow Output Process execution data.

Figure 8-9 Canvas Prompt Filters for Common COA key processing dimension

Common COA Hierarchy Name
 All
 All
 All

- Common COA Hierarchy Name: N.B. this is a mandatory filter for the group filtering on Common COA key processing dimension.
 As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same time, a mandatory driver to select "Common COA Hierarchy Name" must be selected with only a single value simultaneously.
- Common COA Leaf Name: You can use this filter to select the Common COA Leaf Name that is related to the Cashflow Output Process execution data.

8.1.2 Report Hierarchies

The Report provides you with the roll-up and drill down capability on the Cashflow Output Process execution data, leveraging the available levels for the following Hierarchies:

- Org Unit Entity Hierarchy
- Product Hierarchy
- GL Account Hierarchy
- Common COA Hierarchy



Following screenshot displays the available selections for the aforementioned hierarchies.

🕥 Select Org Unit Hierarchy		Select Product Hierarchy								
	Org Unit Name Level 1 Org Unit Name Level 1 Org Unit Name Level 2		Product Name Level 1 Product Name Level 1 Product Name Level 2							
Select GL Account Hierarchy	Org Unit Name Level 3 Org Unit Leaf Name	Select COA Hierarchy	Product Name Level 3 Product Leaf Name							
	GL Account Name Level 1 GL Account Name Level 1		Common COA Level 1 Name Common COA Level 1 Name							
	GL Account Name Level 2 GL Account Name Level 3 GL Account Leaf Name		Common COA Level 2 Name Common COA Level 3 Name Common COA Leaf Name							

Figure 8-10 Cashflow Output key processing dimension hierarchies

8.1.3 In canvas Variable Prompts

- Select Runoff measurement: This is the variable prompt to select the desired Runoff measurement to be applied to the "Runoff by KPDs" report canvas charts. The following elements are available for selection:
 - "Accrued Interest Gross (Without Offset)", "Accrued Interest Net (Without Offset)", "Accumulated Devolved Amount", "Accumulated Gross Interest Amount", "Accumulated Net Interest Amount", "Average Deferred Balance", "Call Option Runoff Amount", "Deferred Runoff", "Devolvement Runoff", "First Reset Cap Effect -Amount", "Gross Accrued Interest Amount", "Gross Interest Cash Flow (Without Offset)", "Gross Interest Cash Flow Amount", "Inflation Adjustment to Interest", "Inflation Adjustment to Principal", "Interest Capitalized", "Life Cap Effect - Amount", "Maturity Run Off", "MOA Prepay Runoff", "Net Accrued Interest Amount", "Net Interest Cash Flow (Without Offset)", "Net Interest Cash Flow Amount", "Non Interest Expense", "Non Interest Income", "Non Maturity - Core Runoff", "Non Maturity -Volatile Runoff", "Non Performing Asset Runoff", "Option Exercise Gain Loss", "Option Exercise Market Value", "Period Cap Effect - Amount", "Prepayment Runoff", "Present Value of Interest", "Present Value of Principal", "Present Value of Principal and Interest", "Principal Cash Flow Amount", "Put Option Runoff Amount", "Recovery Runoff", "Tease Effect - Amount", "Total Notional Runoff", "Total Principal Runoff" and "Writeoff Amount".



Figure 8-11 "Select Runoff measurement" list

Select Runoff measurement

Accrued Interest Gross (Without Offset)	~
Accrued Interest Gross (Without Offset)	*
Accrued Interest Net (Without Offset)	
Accumulated Devolved Amount	
Accumulated Gross Interest Amount	
Accumulated Net Interest Amount	
Average Deferred Balance	
Call Option Runoff Amount	
Deferred Runoff	
Devolvement Runoff	
First Reset Cap Effect - Amount	
Gross Accrued Interest Amount	
Gross Interest Cash Flow (Without Offset)	
Gross Interest Cash Flow Amount	
Inflation Adjustment to Interest	
Inflation Adjustment to Principal	
Interest Capitalized	
Life Cap Effect - Amount	
Maturity Run Off	
MOA Prepay Runoff	
Net Accrued Interest Amount	
Net Interest Cash Flow (Without Offset)	
Net Interest Cash Flow Amount	
Non Interest Expense	
Non Interest Income	
Non Maturity - Core Runoff	
Non Maturity - Volatile Runoff	
Non Performing Asset Runoff	
Option Exercise Gain Loss	
Option Exercise Market Value	
Period Cap Effect - Amount	
Prepayment Runoff	
Present Value of Interest	
Present Value of Principal	
Present Value of Principal and Interest	
Principal Cash Flow Amount	
Put Option Runoff Amount	
Recovery Runoff	
Tease Effect - Amount	
Total Notional Runoff	
Total Principal Runoff	
Writeoff Amount	Ŧ

- Select Balance measurement: This is the variable prompt to select the desired Balance measurement to be applied to the "Balances by KPDs" report canvas charts. The following elements are available for selection:
 - "Beginning Principal Balance", "Ending Principal Balance", "Beginning Deferred Balance", "Ending Deferred Balance", "Balance Before PrePay", "First Reset Cap Balance", "Life Cap Balance", "MOA Expected Balance", "Neg-Amortization Balance", "Period Cap Balance", "Repricing Balance" and "Tease Balance".

Figure 8-12 "Select Balance measurement" list

Select Balance measurement

Beginning Principal Balance ✓ Beginning Principal Balance Ending Principal Balance Beginning Deferred Balance Ending Deferred Balance Balance Before PrePay First Reset Cap Balance Life Cap Balance MOA Expected Balance Neg-Amortization Balance Period Cap Balance Repricing Balance Tease Balance

- Select Rate measurement: This is the variable prompt to select the desired Rate measurement to be applied to the "Rates by KPDs" report canvas charts. The following elements are available for selection:
 - "After Repricing Gross Rate", "After Repricing Net Rate", "Annual Prepayment Rate", "Before Repricing Gross Rate", "Before Repricing Net Rate", "Compounded Gross Interest Rate", "Compounded Net Interest Rate", "Discount Rate", "Effective Interest Rate", "End Gross Interest Rate", "End Net Interest Rate", "First Reset Cap Effect -Rate", "FRA Discount Rate", "Fully Indexed Gross Rate", "Fully Indexed Net Rate", "Gross Interest Rate", "Inflation Index Factor", "Life Cap Effect - Rate", "Net Interest Rate", "Option Exercise Rate", "Option Strike Rate", "Period Cap Effect - Rate", "Tease Effect - Rate" and "Yield to Maturity".



Select Rate measurement After Repricing Gross Rate After Repricing Gross Rate After Repricing Net Rate Annual Prepayment Rate Before Repricing Gross Rate Before Repricing Net Rate Compounded Gross Interest Rate Compounded Net Interest Rate Discount Rate Effective Interest Rate End Gross Interest Rate End Net Interest Rate First Reset Cap Effect - Rate FRA Discount Rate Fully Indexed Gross Rate Fully Indexed Net Rate Gross Interest Rate Life Cap Effect - Rate Net Interest Rate Option Exercise Rate Option Strike Rate Period Cap Effect - Rate Tease Effect - Rate Yield to Maturity

Figure 8-13 "Select Rate measurement" list

8.1.4 Report Data Action

The Data Actions provide the capability to perform drill down analysis across the downstream report canvases. The drill down is enabled via a data action.

From every report canvas charts, you can select a combination of values, and then perform the navigation to the "Process Results Details" report canvas.

In order to do so, with a right click on the chart selection, the data action options will appear for you to be able to navigate further as described in the following mapping:

Navigate to Process Results Details - the Data Action will be drilling through the "Process Results Details" canvas.

The following screenshots show the Data Action list as well as the navigation options that appears once you right click on the desired selection.



Data Actions	
Actions	o
▲ Navigate to Process Res	ults Details
Name	Navigate to Process Results Det
Туре	Analytics Link 🔹
Anchor To	Select Data
Target	This Project
Canvas Link	Process Results Details 🔹
Pass Values	All
Supports Multiple Selection	On
	Cancel OK

Figure 8-14 Data Action configuration



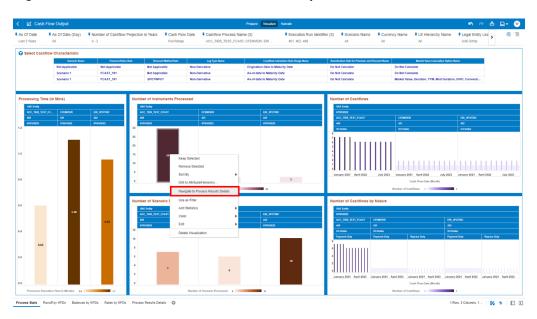


Figure 8-15 Data Action for Drill down with report Canvases

8.1.5 Process Stats

The "Process Stats" Report provides a view of the available statistics related to the execution of the Cash Flow Output processes. You can use the report to identify the process statistics related to the processing time, the number of cashflow generated as well as the number of instruments and scenarios processed.

You can use a series of Report Prompts, as previously described, to filter the data according to key attributes pertaining to the underlying Cash Flow Output results.

The report displays the underlying data according to the following Chart' logic:

 Select Cashflow CharacteristicThe chart provides you with a selection capability on the desired Cashflow characteristics utilized by the Cashflow Output processes.

The columns displayed in the chart are the following:

- Scenario Name
- Forecast Rates Rule
- Discount Method Rule
- Leg Type Name
- Cashflow Calculation Data Range Name
- Amortization Date for Premium and Discount Name
- Market Value Calculation Option Name
- **Processing Time (in Mins)**The chart reports the trend analysis of the Processing Time for each Cash Flow Output execution with respect to As of Date.

- Legal Entity Leaf Name
- Cashflow Process Name



- Execution Run Identifier
- As Of Date (Day)
- Processor Execution Time In Minutes
- Number of Instruments ProcessedThe chart reports the trend analysis of the Number of Instruments Processed for each Cash Flow Output execution with respect to As of Date.

- Legal Entity Leaf Name
- Cashflow Process Name
- Execution Run Identifier
- As Of Date (Day)
- Number of Instruments Processed

Number of Cashflows

The chart reports the trend analysis of the Number of Cashflows generated for each Cash Flow Output execution with respect to As of Date and Cash Flow Date (Month).

The columns displayed in the chart are the following:

- Legal Entity Leaf Name
- As Of Date (Day)
- Cashflow Process Name
- Execution Run Identifier
- Currency Name
- Cash Flow Date (Month)
- Number of Cashflows

Number of Scenario Processed

The chart reports the trend analysis of the Number of Scenario processed for each Cash Flow Output execution with respect to As of Date.

The columns displayed in the chart are the following:

- Legal Entity Leaf Name
- Cashflow Process Name
- Execution Run Identifier
- As Of Date (Day)
- Number of Scenario Processed

Number of Cashflows by Nature

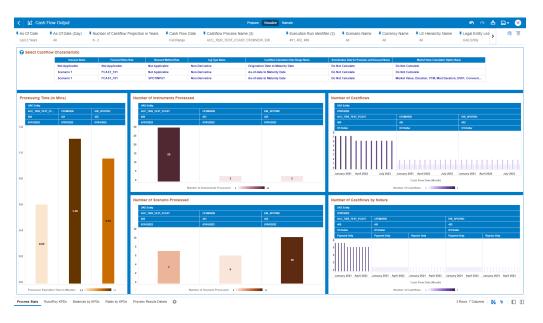
The chart reports the trend analysis of the Number of Cashflows generated for each Cash Flow Output execution with respect to As of Date, Cash Flow Date (Month) and Cash Flow Nature ("*Cashflow Code Name*").

- Legal Entity Leaf Name
- As Of Date (Day)



- Cashflow Process Name
- Execution Run Identifier
- Currency Name
- Cashflow Code Name
- Cash Flow Date (Month)
- Number of Cashflows

Figure 8-16 "Process Stats" Report



8.1.6 Runoff by KPDs

The "Runoff by KPDs" Report provides the Cash Flow Output processes results related to the Runoff measurements, you can drill down and roll up the results across hierarchies for the Key Processing Dimensions of Org Unit, Product, GL Account and Common COA.

You can use a series of Report Prompts, as previously described, to filter the data according to key attributes pertaining to the underlying Cash Flow Output results.

The report displays the underlying data according to the following Chart' logic:

- Select Runoff measurementThe chart provides you with a selection capability on the desired Cashflow Runoff measurement.
- Select Org Unit HierarchyThe chart provides you with a selection capability for the desired Org Unit Hierarchical level.
- Select Product HierarchyThe chart provides you with a selection capability for the desired Product Hierarchical level.
- Select GL Account HierarchyThe chart provides you with a selection capability for the desired GL Account Hierarchical level.



- **Select COA Hierarchy**The chart provides you with a selection capability for the desired Common COA Hierarchical level.
- Selected Runoff Measure by Org UnitThe chart reports the generated Cashflow output Runoff Measure by Org Unit for each Cash Flow Output execution with respect to As of Date and Cash Flow Date (Month).

- Legal Entity Leaf Name
- Cashflow Process Name
- Execution Run Identifier
- As Of Date (Day)
- Currency Name
- Org Unit Hierarchy
- Cash Flow Date (Month)
- Runoff Measure
- Selected Runoff Measure by ProductThe chart reports the generated Cashflow output Runoff Measure by Product for each Cash Flow Output execution with respect to As of Date and Cash Flow Date (Month).

The columns displayed in the chart are the following:

- Legal Entity Leaf Name
- Cashflow Process Name
- Execution Run Identifier
- As Of Date (Day)
- Currency Name
- Product Hierarchy
- Cash Flow Date (Month)
- Runoff Measure

Selected Runoff Measure by GL Account

The chart reports the generated Cashflow output Runoff Measure by GL Account for each Cash Flow Output execution with respect to As of Date and Cash Flow Date (Month).

- Legal Entity Leaf Name
- Cashflow Process Name
- Execution Run Identifier
- As Of Date (Day)
- Currency Name
- GL Account Hierarchy
- Cash Flow Date (Month)
- Runoff Measure



Selected Runoff Measure by Common COA

The chart reports the generated Cashflow output Runoff Measure by Common COA for each Cash Flow Output execution with respect to As of Date and Cash Flow Date (Month).

The columns displayed in the chart are the following:

- Legal Entity Leaf Name
- Cashflow Process Name
- Execution Run Identifier
- As Of Date (Day)
- Currency Name
- COA Hierarchy
- Cash Flow Date (Month)
- Runoff Measure

Figure 8-17 "Runoff by KPDs" Report



8.1.7 Balances by KPDs

The "Balances by KPDs" Report provides the Cash Flow Output processes results related to the Balances measurements, you can drill down and roll up the results across hierarchies for the Key Processing Dimensions of Org Unit, Product, GL Account and Common COA.

You can use a series of Report Prompts, as previously described, to filter the data according to key attributes pertaining to the underlying Cash Flow Output results.

The report displays the underlying data according to the following Chart' logic:

• Select Balance measurementThe chart provides you with a selection capability on the desired Cashflow Balance measurement.



- Select Org Unit HierarchyThe chart provides you with a selection capability for the desired Org Unit Hierarchical level.
- Select Product HierarchyThe chart provides you with a selection capability for the desired Product Hierarchical level.
- Select GL Account HierarchyThe chart provides you with a selection capability for the desired GL Account Hierarchical level.
- **Select COA Hierarchy**The chart provides you with a selection capability for the desired Common COA Hierarchical level.
- Selected Balance Measure by Org UnitThe chart reports the generated Cashflow output Balance Measure by Org Unit for each Cash Flow Output execution with respect to As of Date and Cash Flow Date (Month).

- Legal Entity Leaf Name
- Cashflow Process Name
- Execution Run Identifier
- As Of Date (Day)
- Currency Name
- Org Unit Hierarchy
- Cash Flow Date (Month)
- Balance Measure
- Selected Balance Measure by ProductThe chart reports the generated Cashflow output Balance Measure by Product for each Cash Flow Output execution with respect to As of Date and Cash Flow Date (Month).

The columns displayed in the chart are the following:

- Legal Entity Leaf Name
- Cashflow Process Name
- Execution Run Identifier
- As Of Date (Day)
- Currency Name
- Product Hierarchy
- Cash Flow Date (Month)
- Balance Measure

Selected Balance Measure by GL Account

The chart reports the generated Cashflow output Balance Measure by GL Account for each Cash Flow Output execution with respect to As of Date and Cash Flow Date (Month).

- Legal Entity Leaf Name
- Cashflow Process Name
- Execution Run Identifier



- As Of Date (Day)
- Currency Name
- GL Account Hierarchy
- Cash Flow Date (Month)
- Balance Measure

Selected Balance Measure by Common COA

The chart reports the generated Cashflow output Balance Measure by Common COA for each Cash Flow Output execution with respect to As of Date and Cash Flow Date (Month).

The columns displayed in the chart are the following:

- Legal Entity Leaf Name
- Cashflow Process Name
- Execution Run Identifier
- As Of Date (Day)
- Currency Name
- COA Hierarchy
- Cash Flow Date (Month)
- Balance Measure

Figure 8-18 "Balances by KPDs" Report



8.1.8 Rates by KPDs

The "Rates by KPDs" Report provides the Cash Flow Output processes results related to the Rates measurements, you can drill down and roll up the results across hierarchies for the Key Processing Dimensions of Org Unit, Product, GL Account and Common COA.



You can use a series of Report Prompts, as previously described, to filter the data according to key attributes pertaining to the underlying Cash Flow Output results.

The report displays the underlying data according to the following Chart' logic:

- Select Rate measurement The chart provides you with a selection capability on the desired Cashflow Rate measurement.
- Select Org Unit HierarchyThe chart provides you with a selection capability for the desired Org Unit Hierarchical level.
- Select Product HierarchyThe chart provides you with a selection capability for the desired Product Hierarchical level.
- Select GL Account HierarchyThe chart provides you with a selection capability for the desired GL Account Hierarchical level.
- **Select COA Hierarchy**The chart provides you with a selection capability for the desired Common COA Hierarchical level.
- Selected Rate by Org UnitThe chart reports the generated Cashflow output Rate by Org Unit for each Cash Flow Output execution with respect to As of Date and Cash Flow Date (Month).

The columns displayed in the chart are the following:

- Legal Entity Leaf Name
- Cashflow Process Name
- Execution Run Identifier
- As Of Date (Day)
- Currency Name
- Org Unit Hierarchy
- Cash Flow Date (Month)
- Rate
- Selected Rate by ProductThe chart reports the generated Cashflow output Rate by Product for each Cash Flow Output execution with respect to As of Date and Cash Flow Date (Month).

The columns displayed in the chart are the following:

- Legal Entity Leaf Name
- Cashflow Process Name
- Execution Run Identifier
- As Of Date (Day)
- Currency Name
- Product Hierarchy
- Cash Flow Date (Month)
- Rate
- Selected Rate by GL Account

The chart reports the generated Cashflow output Rate by GL Account for each Cash Flow Output execution with respect to As of Date and Cash Flow Date (Month).



- Legal Entity Leaf Name
- Cashflow Process Name
- Execution Run Identifier
- As Of Date (Day)
- Currency Name
- GL Account Hierarchy
- Cash Flow Date (Month)
- Rate

Selected Rate by Common COA

The chart reports the generated Cashflow output Rate by Common COA for each Cash Flow Output execution with respect to As of Date and Cash Flow Date (Month).

The columns displayed in the chart are the following:

- Legal Entity Leaf Name
- Cashflow Process Name
- Execution Run Identifier
- As Of Date (Day)
- Currency Name
- COA Hierarchy
- Cash Flow Date (Month)
- Rate

Figure 8-19 "Rates by KPDs" Report

Cash Flow Output Prepare Visual	size Narrate 🍋 🍅 📩 🕞 🔹
s Of Date As Of Date (Day) Rumber of Cashflow Projection in Years Cash Flow Date Cashflow Process Name Executives All 0-2 Full Runge ACC_TIER_TEST_FCAST All	tion Run Identifier
§ Select Rate measurement Gross Interest Rate	°,
elect Org Unit Hierarchy Org Unit Leaf Name	Select Product Hierarchy Product Leaf Name v
Marcange Marcange Marcange Marcange<	Selected Set by Product Image: Set by Product Image: Set by Product Image: Set by Product Set By
elect GL Account Hierarchy GL Account Leaf Name 🗸	Select COA Hierarchy Common COA Leaf Name 👻
MECHA SINE by CL. Account MECha Magnetic Market State S	Selected Rate by Common COA KC (25 Kg 176) KC (25 Kg 176) K



8.1.9 Process Results Details

The "Process Results Details" Report provides a view of the underlying Cash Flow Output results generated during the Cash Flow Output Process execution, and the available granularity is at Customer Accounts level.

The report provides the "Account Number" additional filter as shown in the screenshot "*Process Results Details* Report – Account Number selection".

You can use a series of Report Prompts, as previously described, to filter the data according to key attributes pertaining to the underlying Cash Flow Output results.

The report displays the underlying data according to the following Chart' logic:

Process Results Details

The tabular report displays all the Cash Flow Output results details related to the execution of the Cash Flow Output process, including information related to the Customer Account details.

Following the granular elements available for this table chart:

"As Of Date (Day)", "Cash Flow Date (Day)", "Cashflow Process Name", "Execution Run Identifier", "Record Sequence", "Legal Entity Leaf Name", "Common COA Leaf Name", "GL Account Leaf Name", "Org Unit Leaf Name", "Product Leaf Name", "Cashflow Calculation Data Range Name", "Discount Method Rule", "Forecast Rates Rule", "Prepayment Rule", "Model With Gross Rate Indicator", "Payment Pattern Split Identifier", "Rate Set Date (Day)", "Tiered Rate Rank", "Cashflow Code Name", "Scenario Name", "Leg Type Name", "Holiday Calendar Enabled", "Market Value Calculation Indicator", "Amortization Date for Premium and Discount Name", "Source Table Name", "Account Number", "Identity Number", "Currency Code", "Currency Name", "Accrued Interest Gross (Without Offset)", "Accrued Interest Net (Without Offset)", "Accumulated Devolved Amount", "Accumulated Gross Interest Amount", "Accumulated Net Interest Amount", "Average Deferred Balance", "Balance Before PrePay", "Beginning Deferred Balance", "Beginning Principal Balance", "Call Option Runoff Amount", "Deferred Runoff", "Devolvement Runoff", "Ending Deferred Balance", "Ending Principal Balance", "First Reset Cap Balance", "First Reset Cap Effect - Amount", "Gross Accrued Interest Amount", "Gross Interest Cash Flow (Without Offset)", "Gross Interest Cash Flow Amount", "Inflation Adjustment to Interest", "Inflation Adjustment to Principal", "Interest Capitalized", "Life Cap Balance", "Life Cap Effect - Amount", "Maturity Run Off", "MOA Expected Balance", "MOA Prepay Runoff", "Neg-Amortization Balance", "Net Accrued Interest Amount", "Net Interest Cash Flow (Without Offset)", "Net Interest Cash Flow Amount", "Non Interest Expense", "Non Interest Income", "Non Maturity - Core Runoff", "Non Maturity - Volatile Runoff", "Non Performing Asset Runoff", "Option Exercise Gain Loss", "Option Exercise Market Value", "Period Cap Balance", "Period Cap Effect -Amount", "Prepayment Runoff", "Present Value of Interest", "Present Value of Principal", "Present Value of Principal and Interest", "Principal Cash Flow Amount", "Put Option Runoff Amount", "Recovery Runoff", "Repricing Balance", "Tease Balance", "Tease Effect - Amount", "Total Notional Runoff", "Total Principal Runoff", "Writeoff Amount", "After Repricing Gross Rate", "After Repricing Net Rate", "Annual Prepayment Rate", "Before Repricing Gross Rate", "Before Repricing Net Rate", "Compounded Gross Interest Rate", "Compounded Net Interest Rate", "Convexity Value", "Day Count", "Discount Factor", "Discount Factor Term in Years", "Discount Rate", "Discount Rate Lookup Term In Days", "Dollar Duration DV01", "Macaulay Duration", "Effective Interest Rate", "End Gross Interest Rate", "End Net Interest



Rate", "First Reset Cap Effect - Rate", "FRA Discount Factor", "FRA Discount Rate", "Fully Indexed Gross Rate", "Fully Indexed Net Rate", "Gross Interest Rate", "Inflation Index Factor", "Life Cap Effect - Rate", "Modified Duration", "Net Interest Rate", "Option Exercise Rate", "Option Strike Rate", "Period Cap Effect - Rate", "Tease Effect - Rate" and "Yield to Maturity".

s Of Date ast 2 Years	As Of Date (Day)	Number of Cashflo 0 - 2	w Projection in Years	Cash Flow Date Full Range	Cashflow Proce		tion Run Identifier	Scenario Name All	Currency Name	LE Hierarchy Name All	Legal Entity Lea UAE Entity	af Name 🖡 Org Ur All	`
rocess Resu	Its Details												
s Of Date (Day)		Cashflow Process Name	Execution Run Identifier			Common COA Leaf Name	GL Account Leaf Name		g Unit Leaf Name	Product Leaf N		flow Calculation Data Rang	
17/01/2022	01/07/2021	ACC_TIER_TEST_FCA	469			Earning Asset Account	BALANCE SHEET_GL	CITY 5 COST CENT		Trade Refinance	-	nation Date to Maturity Date	
17/01/2022	01/07/2021	ACC_TIER_TEST_FCA	469			Earning Asset Account	BALANCE SHEET_GL	HEAD OFFICE BRA	INCH	Corporate TD Annual I		nation Date to Maturity Date	le No
17/01/2022	01/07/2021	ACC_TIER_TEST_FCA	469	24	UAE Entity	Earning Asset Account	LENDING FEES	CITY & COST CENT	RE	Retail TD Annual Inter-	est Payout Origin	nation Date to Maturity Date	e No
7/01/2022	01/07/2021	ACC_TIER_TEST_FCA	469			Earning Asset Account	LENDING FEES		RY, OPERATIONS COST CEI			nation Date to Maturity Date	
7/01/2022	01/07/2021	ACC_TIER_TEST_FCA	463	24	UAE Entity	Earning Asset Account	LENDING FEES	HEAD OFFICE BRA	INCH	Corporate Bonds	Origin	nation Date to Maturity Date	e No
7/01/2022	01/07/2021	ACC_TIER_TEST_FCA	469	63	UAE Entity	Earning Asset Account	BALANCE SHEET_GL	HEAD OFFICE BRA	NCH	Corporate Bonds	Origin	nation Date to Maturity Date	e No
7/01/2022	01/07/2021	ACC_TIER_TEST_FCA	469	64	UAE Entity	Earning Asset Account	BALANCE SHEET_GL	HEAD OFFICE BRA	INCH	Corporate Bonds	Origin	nation Date to Maturity Date	e Not
7/01/2022	04/07/2021	ACC_TIER_TEST_FCA	469	25	UAE Entity	Earning Asset Account	BALANCE SHEET_GL	CITY 5 COST CENT	RE	Trade Refinance	Origin	nation Date to Maturity Date	le No
7/01/2022	04/07/2021	ACC_TIER_TEST_FCA	469	25	UAE Entity	Earning Asset Account	BALANCE SHEET_GL	HEAD OFFICE BRA	NCH	Corporate TD Annual I	nterest Pa Origin	nation Date to Maturity Date	e No
7/01/2022	04/07/2021	ACC_TIER_TEST_FCA	469	25	UAE Entity	Earning Asset Account	LENDING FEES	CITY & COST CENT	RE	Retail TD Annual Inter-	est Payout Origin	nation Date to Maturity Date	e No
7/01/2022	04/07/2021	ACC_TIER_TEST_FCA	469	25	UAE Entity	Earning Asset Account	LENDING FEES	FINANCE, TREASU	RY, OPERATIONS COST CEI	IT Micro Business Loan	Origin	nation Date to Maturity Date	e No
1/01/2022	04/07/2021	ACC_TIER_TEST_FCA	469	25	UAE Entity	Earning Asset Account	LENDING FEES	HEAD OFFICE BRA	NCH	Corporate Bonds	Origin	nation Date to Maturity Date	e No
7/01/2022	04/07/2021	ACC_TIER_TEST_FCA	469	65	UAE Entity	Earning Asset Account	BALANCE SHEET_GL	HEAD OFFICE BRA	NCH	Corporate Bonds	Origin	nation Date to Maturity Date	e No
/01/2022	04/07/2021	ACC_TIER_TEST_FCA	469	66	UAE Entity	Earning Asset Account	BALANCE SHEET_GL	HEAD OFFICE BRA	NCH	Corporate Bonds	Origin	nation Date to Maturity Date	e N
01/2022	07/07/2021	ACC_TIER_TEST_FCA	469	26	UAE Entity	Earning Asset Account	BALANCE SHEET_GL	CITY 5 COST CENT	RE	Trade Refinance	Origin	nation Date to Maturity Date	e N
1/01/2022	07/07/2021	ACC_TIER_TEST_FCA	469	26	UAE Entity	Earning Asset Account	BALANCE SHEET_GL	HEAD OFFICE BRA	NCH	Corporate TD Annual I	nterest Pa Origin	nation Date to Maturity Date	n N
5505/10/	07/07/2021	ACC TIER TEST FCA	469	26	UAE Entity	Earning Asset Account	LENDING FEES	CITY 5 COST CENT	RE	Retail TD Annual Inter-	est Payout Origin	nation Date to Maturity Date	. N
/01/2022	07/07/2021	ACC TIER TEST FCA	469	26	UAE Entity	Earning Asset Account	LENDING FEES	FINANCE, TREASU	RY, OPERATIONS COST CEI	T Micro Business Loan	Origin	nation Date to Maturity Date	2 N
1/01/2022	07/07/2021	ACC_TIER_TEST_FCA	462	26	UAE Entity	Earning Asset Account	LENDING FEES	HEAD OFFICE BRA	NCH	Corporate Bonda	Origin	nation Date to Maturity Date	e No
5505/10/1	07/07/2021	ACC TIER TEST FCA	469	67		Earning Asset Account	BALANCE SHEET GL	HEAD OFFICE BRA	NCH	Corporate Bonds	Origin	nation Date to Maturity Date	e No
/01/2022	07/07/2021	ACC TIER TEST FCA	469			Earning Asset Account	BALANCE SHEET GL	HEAD OFFICE BRA		Corporate Bonds		nation Date to Maturity Date	
01/2022	10/07/2021	ACC TIER TEST FCA	460			Earning Asset Account	BALANCE SHEET GL	CITY 5 COST CENT		Trade Refinance	-	nation Date to Maturity Date	
01/2022	10/07/2021	ACC TIER TEST FCA	463			Earning Asset Account	BALANCE SHEET GL	HEAD OFFICE BRA		Comparate TD Annual I	-	nation Date to Maturity Date	
1/01/2022	10/07/2021	ACC TIER TEST FCA	469			Earning Asset Account	LENDING FEES	CITY 5 COST CENT		Retail TD Annual Inter		nation Date to Maturity Date	
101/2022	10/07/2021	ACC TIER TEST FCA	469			Earning Asset Account	LENDING FEES		IRY, OPERATIONS COST CEI			nation Date to Maturity Date	
101/2022	10/07/2021	ACC TIER TEST FCA	403			Earning Asset Account	LENDING FEES	HEAD OFFICE BRA		Corporate Bonds	-	nation Date to Maturity Date	
/01/2022	10/07/2021	ACC_TIER_TEST_FCA	469			Earning Asset Account	BALANCE SHEET_GL	HEAD OFFICE BRA		Corporate Bonds		nation Date to Maturity Date	
7/01/2022	10/07/2021	ACC_TIER_TEST_FCA	469			Earning Asset Account	BALANCE SHEET_GL	HEAD OFFICE BRA		Corporate Bonds		nation Date to Maturity Date	
101/2022	01/07/2022	ACC_TIER_TEST_FCA	469			Earning Asset Account	BALANCE SHEET_GL	CITY 5 COST CENT			-	nation Date to Maturity Date	
1/01/2022	01/07/2022	ACC_TIER_TEST_FCA	469			Earning Asset Account	BALANCE SHEET_GL	HEAD OFFICE BRA		Corporate TD Annual I		nation Date to Maturity Date	
/01/2022	01/07/2022	ACC_TIER_TEST_FCA	469			Earning Asset Account	LENDING FEES	CITY & COST CENT		Retail TD Annual Inter-		nation Date to Maturity Date	
01/2022	01/07/2022	ACC_TIER_TEST_FCA	469			Earning Asset Account	LENDING FEES		RY, OPERATIONS COST CEI		-	nation Date to Maturity Date	
01/2022	01/07/2022	ACC_TIER_TEST_FCA	469			Earning Asset Account	LENDING FEES	HEAD OFFICE BRA		Corporate Bonda		nation Date to Maturity Date	
01/2022	01/07/2022	ACC_TIER_TEST_FCA	469			Earning Asset Account	BALANCE SHEET_GL	HEAD OFFICE BRA		Corporate Bonds		nation Date to Maturity Date	
/01/2022	04/07/2022	ACC_TIER_TEST_FCA	469			Earning Asset Account	BALANCE SHEET_GL	CITY 5 COST CENT	RE	Trade Refinance	Origin	nation Date to Maturity Date	e No
01/2022	04/07/2022	ACC_TIER_TEST_FCA	463	29	UAE Entity	Earning Asset Account	BALANCE SHEET_GL	HEAD OFFICE BRA		Corporate TD Annual I	nterest Pa Origin	nation Date to Maturity Date	-
04/0030	04072022	ACC THE TEST FOR	469	10	TAP PARA	Exercises Assart Account	I PADING PPP C	CITY & COST CENT	0*	Datell TD Annual Inter-	art Devent Color	nation Data to Mahorito Data	u 10

Figure 8-20 "Process Results Details" Report

B	Cash Flow Out	ut					Prepare	Visualize Nari							• • 0	- 61	₽.
•	Org Unit Hierarchy All	lame F Org Unit	Leaf Name	Product Hierarchy M All	lame	Product Leaf Name	GL Account Hierarchy N	ame 🖡 GL All	Account Leaf Nar	ne ¥ Comm All	on COA Hierarchy Name	Common COA	A Leaf Name	₹ Account Al	t Number +	o ≡	Q
Proces	s Results Details									Accour	nt Number sele	ection		Search	Q I	Selections	
As Of E	Note (Day) Cash Flow	Date (Day) Cashflow	Process Name	Execution Run Identifier	Record	Sequence Legal Entity Le	ef Name Common COA Leaf P	ame GLAcce	unt Leef Name	Org	Unit Leef Name	Product Le	tel Nati				
67/01/2	022 01/07/2021	ACC_TIER	TEST_FCA	469	24	UAE Entity	Earning Asset Accou	H BALANO	E SHEET_GL CI	TY 5 COST CENTR	E	Trade Refinance		A11_1			
7/01/2	022 01/07/2021	ACC_TIER	TEST_FCA	469	24	UAE Entity	Earning Asset Accou	t BALANC	E SHEET_GL H	EAD OFFICE BRAN	си	Corporate TD Ann	ual Interest Pa	A12 1	- 1		
7/01/2	022 01/07/2021	ACC_TIER	TEST_FCA	469	24	UAE Entity	Earning Asset Accou	t LENDIN	S FEES CI	TY 5 COST CENTR		Retail TD Annual I	nterest Payout	A12_1			
7/01/2	022 01/07/2021	ACC_TIER	TEST_FCA	469	24	UAE Entity	Earning Asset Accou	IL LENDIN	SPEES PI	NANCE, TREASUR	r, OPERATIONS COST CENT	Micro Business Lo	oan	A13 1			
7/01/2	022 01/07/2021	ACC_TIER	TEST_FCA	469	24	UAE Entity	Earning Asset Account	t LENDIN	FEES H	EAD OFFICE BRAN	сн	Corporate Bonds				Click	
7/01/2	022 01/07/2021	ACC_TIER	TEST_FCA	469	63	UAE Entity	Earning Asset Accou	t BALANC	E SHEET_GL H	AD OFFICE BRAN	СН	Corporate Bonds		A14_1		selection	
7/01/2	022 01/07/2021	ACC_TIER	TEST_FCA	469	64	UAE Entity	Earning Asset Accou	IL BALANC	E SHEET_GL H	EAD OFFICE BRAN	сн	Corporate Bonds				1	
7/01/2	022 04/07/2021	ACC_TIER	TEST_FCA	469	25	UAE Entity	Earning Asset Account	ALANC	E SHEET_GL CI	TY 5 COST CENTR	E	Trade Refinance		A15_1			
7/01/2	022 04/07/2021	ACC_TIER	TEST FCA	469	25	UAE Entity	Earning Asset Accou	a BALANG	E SHEET_GL H	AD OFFICE BRAN	сн	Corporate TD Ann	ual Interest Pa				
7/01/2	022 04/07/2021	ACC_TIER	TEST_FCA	469	25	UAE Entity	Earning Asset Accou	LENDIN	SPEES C	TY & COST CENTR		Retail TD Annual I	nterest Payout	A16_1			
7/01/2	022 04/07/2021	ACC_TIER	TEST_FCA	469	25	UAE Entity	Earning Asset Accou	LENDIN	FEES FI	NANCE, TREASUR	, OPERATIONS COST CENT	Micro Business Lo	an		*		
7/01/2	022 04/07/2021	ACC_TIER	TEST_FCA	469	25	UAE Entity	Earning Asset Accou	LENDIN	FEES H	AD OFFICE BRAN	сн	Corporate Bonds		()			
1/01/2	022 04/07/2021	ACC_TIER	TEST FCA	469	65	UAE Entity	Earning Asset Accou	a BALANC	E SHEET_GL H	AD OFFICE BRAN	СН	Corporate Bonds		Select All		Deselect	All
101/2	022 04/07/2021	ACC TIER	TEST FCA	469	66	UAE Entity	Earning Asset Account	M BALANC	E SHEET GL H	AD OFFICE BRAN	сн	Corporate Bonds		Destaution	Date to Hobert	Date	Not
7/01/2	022 07/07/2021	ACC TIER	TEST FCA	469	25	UAE Entity	Earning Asset Account	BALANC	E SHEET_GL CI	TY 5 COST CENTR		Trade Refinance		Origination	Date to Maturit	y Date	Not
1/01/2	022 07/07/2021	ACC THER	TEST FCA	469	26	UAE Entity	Earning Asset Accou			AD OFFICE BRAN	сн	Corporate TD Ann	ual Interest Pa	Origination	Date to Maturit	v Date	Not
101/2			TEST FCA	469	26	UAE Entry	Earning Asset Accou			TY & COST CENTR		Retail TO Annual I			Date to Maturit		Not
1/01/2			TEST FCA	469	26	UAE Entity	Earning Asset Accou		FEES FE	NANCE, TREASUR	COPERATIONS COST CENT	Micro Business Lo			Date to Maturit		Not
1/01/2	022 07/07/2021	ACC TIER	TEST FCA	469	26	UAE Entity	Earning Asset Accou	LENDIN	FEES H	AD OFFICE BRAN	сн	Corporate Bonds		Origination	Date to Maturit	v Date	Not
1/01/2			TEST FCA	409	67	UAE Entity	Earning Asset Accou		E SHEET_GL H	AD OFFICE BRAN	сн	Corporate Bonds			Date to Maturit		Not
1/01/2			TEST FCA	469	68	UAE Entity	Earning Asset Accou			AD OFFICE BRAN		Corporate Bonds			Date to Maturit		Not
7/01/2			TEST FCA	402	27	UAE Entity	Earning Asset Accou			TY & COST CENTR		Trade Refinance			Date to Maturit		Not
1/01/21			TEST PCA	469	27	UAE Entity	Earning Asset Accou			AD OFFICE BRAN		Corporate TD Ann	and Interest Da		Date to Maturit		Not
1/01/2			TEST FCA	459	27	UAE Entity	Earning Asset Accou			TY & COST CENTR		Retail TD Annual I			Date to Maturit		Not
101/2			TEST FCA.	403	27	UAE Entity	Earning Asset Accou				COPERATIONS COST CENT	Micro Business Lo			Date to Maturit		Not
101/2			TEST_FCA	462	27	UAE Entity	Earning Asset Accou			EAD OFFICE BRAN		Corporate Bonds			Date to Maturit		Not
101/2			TEST FCA	469	69	UAE Entity	Earning Asset Accou			AD OFFICE BRAN		Corporate Bonds			Date to Maturit		Not
101/2			TEST_FCA	469	70	UAE Entity	Earning Asset Accou			FAD OFFICE BRAN		Corporate Bonds			Date to Maturit		Not
1/01/2			TEST_FCA	409	28	UAE Entity	Earning Asset Accou			TY 5 COST CENTR		Trade Refinance			Date to Maturit		Not
101/2			TEST FCA	469	28	UAE Entity	Earning Asset Accou			TAD OFFICE BRAN		Corporate TD Ann	and instances in the		Date to Maturit		Not
101/2			TEST FCA	402	20	UAE Entry	Earning Asset Account			TY 5 COST CENTR		Retail TD Annual I			Date to Maturit		Not
101/2				469	28		Earning Asset Accou				E K OPERATIONS COST CENT	Micro Business Lo					Not
101/2			TEST_FCA	469	28	UAE Entity				ANCE, TREASUR		Corporate Bonds	2011		Date to Maturit		
			TEST_FCA	469	28	UAE Entity	Earning Asset Accou								Date to Maturit		Not
7/01/2			TEST_FCA			UAE Entity	Earning Asset Accou			EAD OFFICE BRAN		Corporate Bonds			Date to Maturit		Not
7/01/2			TEST_FCA	469	29	UAE Entity	Earning Asset Accou			TY 5 COST CENTR		Trade Refinance		-	Date to Maturit		Not
1/01/2			TEST_FCA	469	29	UAE Entity	Earning Asset Accou			EAD OFFICE BRAN		Corporate TD Ann			Date to Maturit		Not
	033 04/07/3033	ACC THE	THET ICA	100	70	TAE Passa	Famine Assat Arrest	- I FARMA		TY & COST CENTO		Datel Th Assess 1	nterest Decret	Orinination	Data In Maturi	to Data	Net

Figure 8-21 "Process Results Details" Report – Account Number selection

