

# Oracle Financial Services

## Cash Flow Engine Cloud Service Business Intelligence Analytics



Release 22.12.01

F75361-01

January 2023

The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

ORACLE®

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

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# 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) Cloud 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.



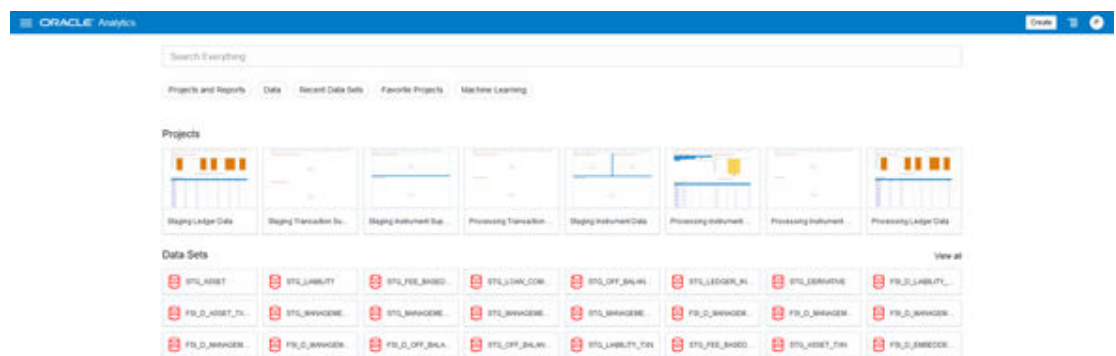
# 3

## 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**



# 4

## 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.

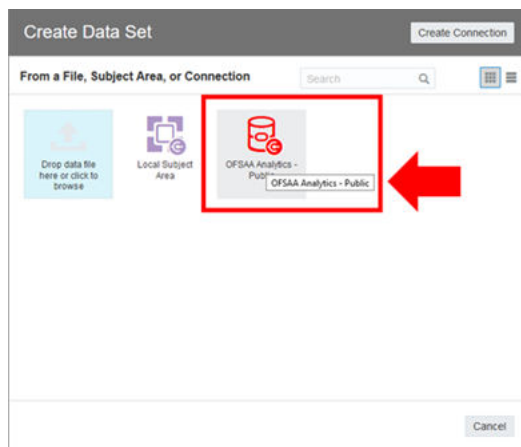
A Data Set contains Data Source Connection Information, Tables, the Columns you specify, and the Data Enrichments, and Transformations that you apply.

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:

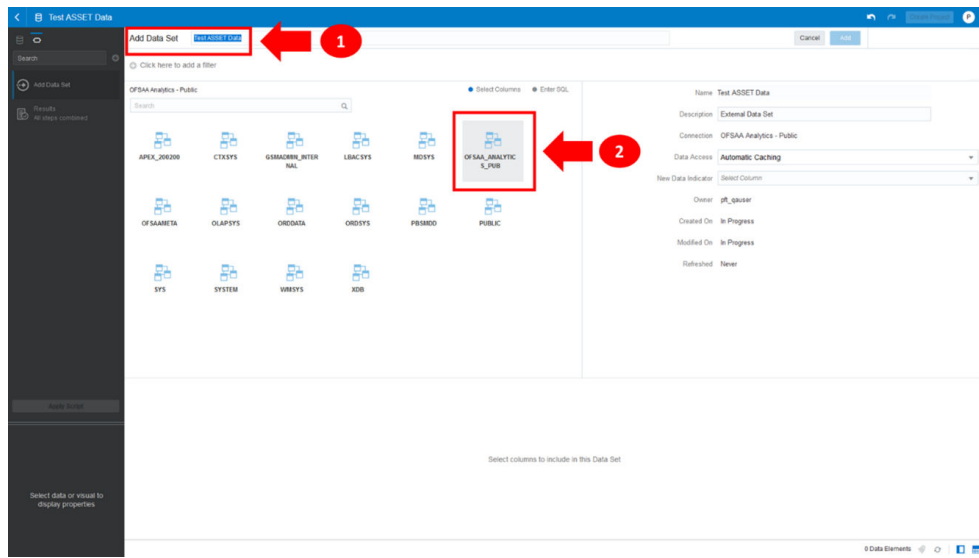
1. From the LHS Menu, select Analytics, and then select SQL Query Browser. The SQL Query Browser allows you to use an existing Database Connector named OFSAA Analytics – Public to interact with the underlying available Database Structures.

**Figure 4-1 Create Data Set Screen**



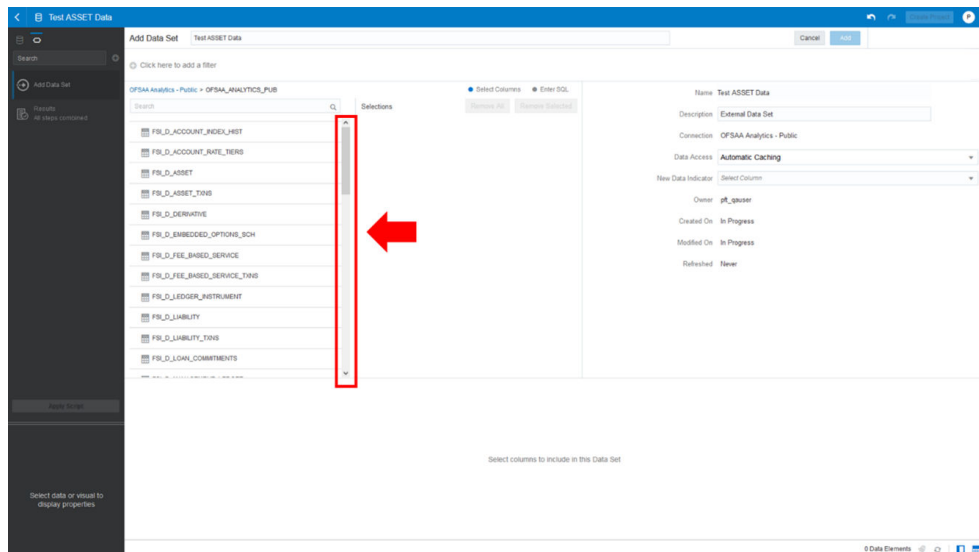
2. After selecting the Database Connector, you must select the Database Schema named OFSAA\_ANALYTICS\_PUB to proceed to the next step of Database Object Selection.

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.

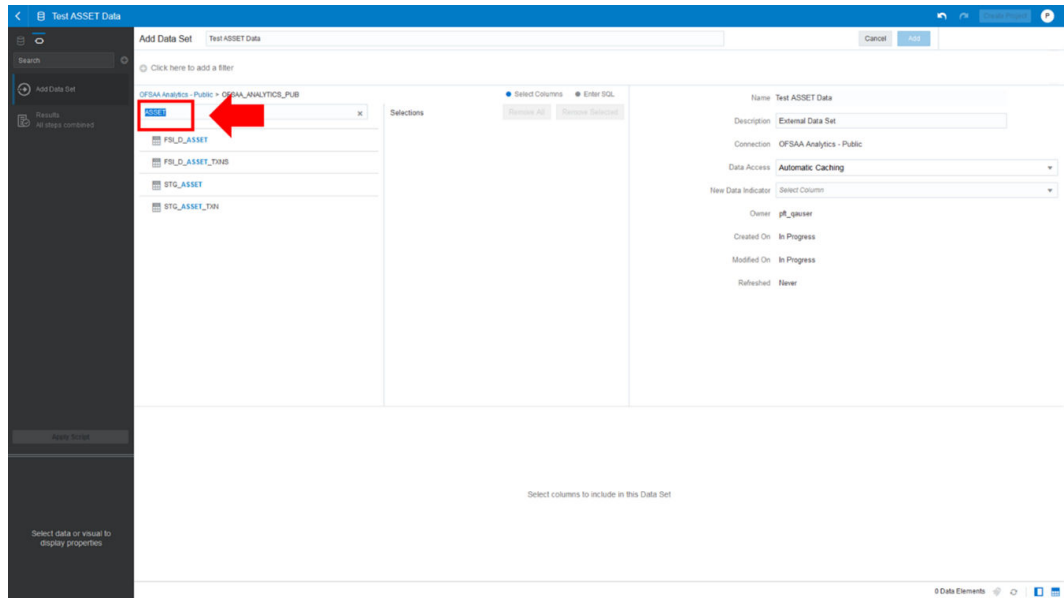
Figure 4-3 Add Data Set – Search from the List



Or

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

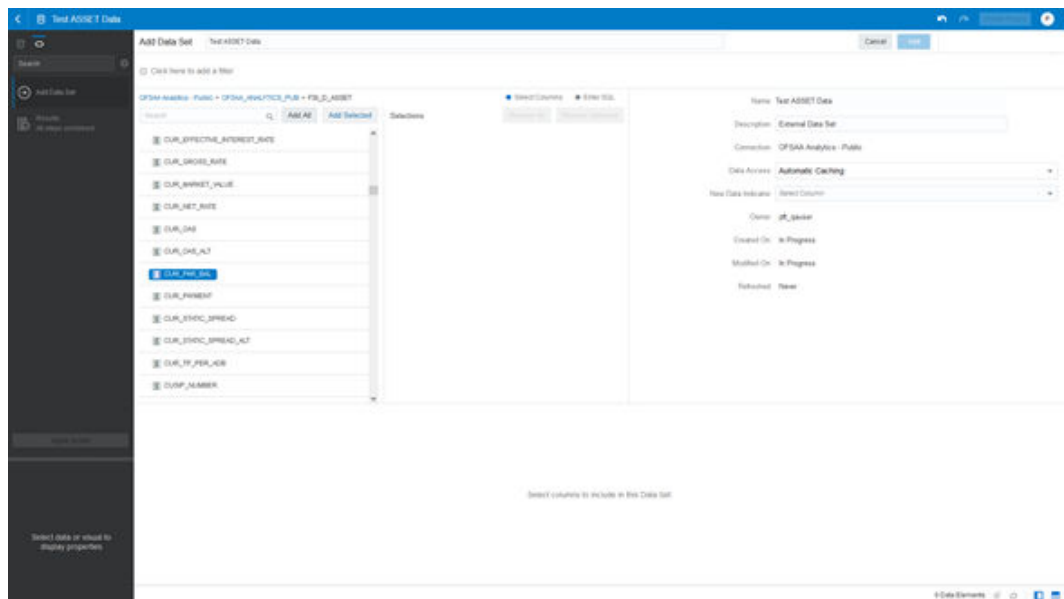
Figure 4-4 Add Data Set – Search by Name



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

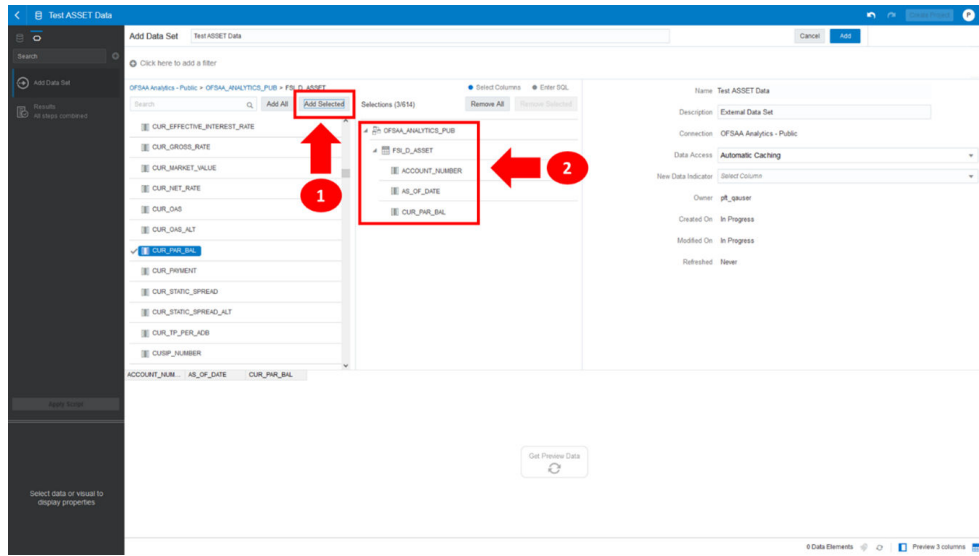
5. You search the Columns that are available for the selected Database Object by scrolling.

Figure 4-5 Add Data Set – Search Columns



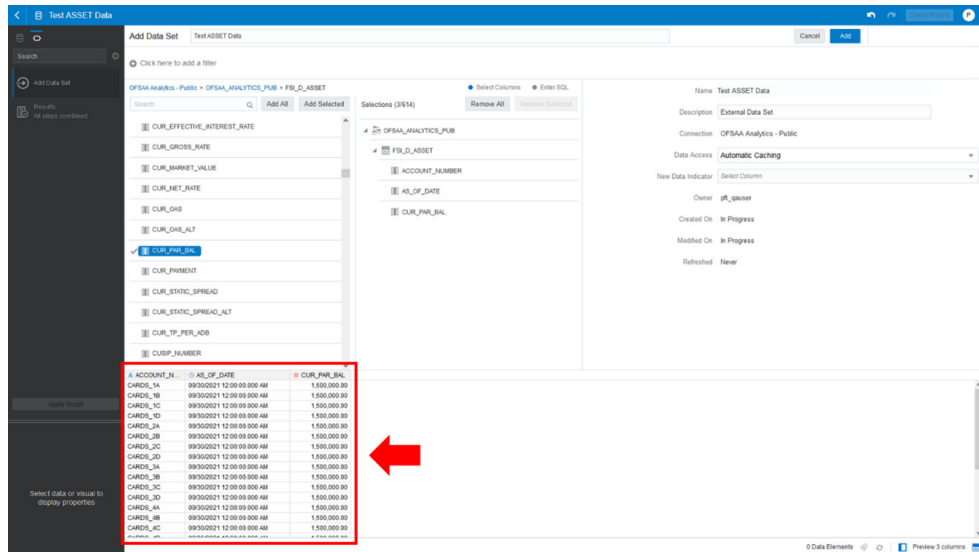
6. Add the Database Object Column as required.

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



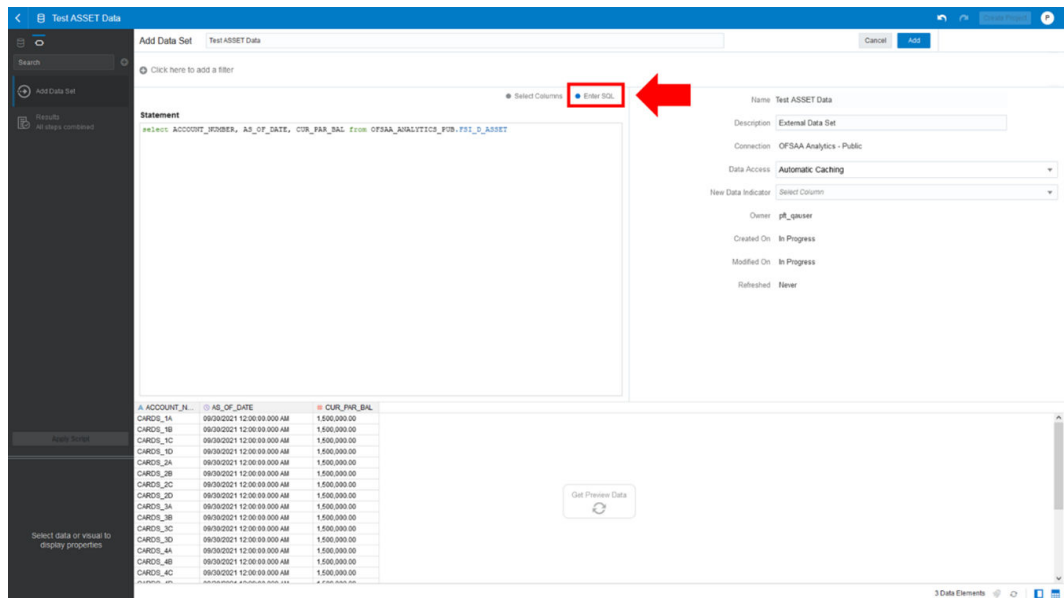
7. Click Get Preview Data to display the retrieved Data Results.

Figure 4-7 Data Results



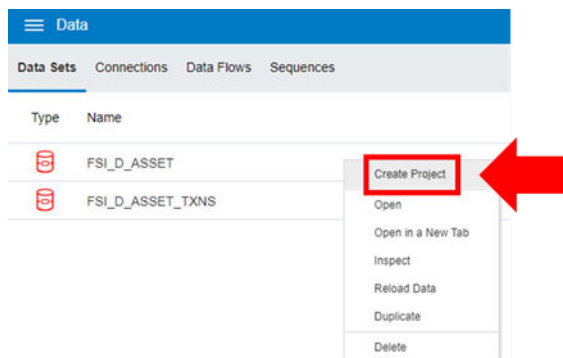
8. In addition, you can switch to the Enter SQL Pane Editor. You can change the auto-generated SQL Query at any time and click Get Preview Data to retrieve the results based on the modified SQL Query.

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



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.

**Table 5-1 Raw Data Analysis Reports**

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

Table 5-1 (Cont.) 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	Stage	Management
			MENT_LEDGE	Management	Ledger
			R	Ledger	Management
			STG_MANAGE	Stage	Ledger 01
			MENT_LEDGE	Placeholder	Management
			R_01	Management	Ledger 02
			STG_MANAGE	Ledger 01	Management
			MENT_LEDGE	Stage	Ledger 03
			R_02	Placeholder	Management
			STG_MANAGE	Management	Ledger 04
MENT_LEDGE	Ledger 02	Management			
R_03	Stage	Ledger 05			
STG_MANAGE	Placeholder				
MENT_LEDGE	Management				
R_04	Ledger 03				
STG_MANAGE	Stage				
MENT_LEDGE	Placeholder				
R_05	Management				
	Ledger 04				
	Stage				
	Placeholder				
	Management				
	Ledger 05				
Staging Transaction Summary Data	Transaction Summary	STG Staging	STG_ASSET_T	Stage Asset	Assets
			XN	Transaction	Transaction
			STG_LIABILIT	Summary	Summary
			Y_TXN	Stage Liability	Liabilities
			STG_FEE_BA	Transaction	Transaction
			SED_SERVICE	Summary	Summary
			_TXN	Stage Fee	Fee Based
			STG_OFF_BAL	Based and	Services
			ANCE_SHEET	Other Services	Transaction
			_TXN	Transaction	Summary
	Summary	Off Balance			
	Stage Off	Sheet			
	Balance Sheet	Transaction			
	Transaction	Summary			
	Summary				



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

Report Name	Scope	Table Layer	Physical Table List	Logical Table List	Report Canvas Name
Processing Instrument Data	Instrument	FSI Processing	FSI_D_ASSET	Asset	Assets
			FSI_D_LIABILITY	Instruments Liability	Liabilities
			FSI_D_DERIVATIVE	Instruments Derivative	Derivative Contracts
			FSI_D_FEE_BASED_SERVICE	Derivative Contracts	Fee Based Services
			FSI_D_LOAN_COMMITMENTS	Fee Based and Other Services	Loan Commitments
			FSI_D_LOAN_COMMITMENTS	Loan Commitments	Off Balance Sheet Items
			FSI_D_OFF_BALANCE_SHEET	Off Balance Sheet	Ledger Instruments
			FSI_D_OFF_BALANCE_SHEET	Contracts	
			FSI_D_LEDGER_INSTRUMENT	Ledger Instrument	
Processing Instrument Supplementary Data	Instrument Supplementary	FSI Processing	FSI_D_ACCOUNT_INDEX_HISTORY	Account Index History	Account Index History
			FSI_D_ACCOUNT_RATE_TIERS	Account Rate Tiers	Account Rate Tiers
			FSI_D_ACCOUNT_RATE_TIE	Embedded Options	Embedded Options
			FSI_D_EMBEDDED_OPTION_SCHEDULE	Schedule	Schedule
			FSI_D_EMBEDDED_OPTION_SCHEDULE	Payment Schedule	Payment Schedule
			FSI_D_PAYMENT_SCHEDULE		
			FSI_D_PAYMENT_SCHEDULE		
Processing Ledger Data	Ledger	FSI Processing	FSI_D_MANAGEMENT_LEDGER	Management Ledger	Management Ledger
			FSI_D_MANAGEMENT_LEDGER_01	Placeholder	Management Ledger 01
			FSI_D_MANAGEMENT_LEDGER_01	Management Ledger 01	Management Ledger 01
			FSI_D_MANAGEMENT_LEDGER_02	Placeholder	Management Ledger 02
			FSI_D_MANAGEMENT_LEDGER_02	Management Ledger 02	Management Ledger 02
			FSI_D_MANAGEMENT_LEDGER_02	Management Ledger 02	Management Ledger 03
			FSI_D_MANAGEMENT_LEDGER_03	Placeholder	Management Ledger 03
			FSI_D_MANAGEMENT_LEDGER_03	Management Ledger 03	Management Ledger 04
			FSI_D_MANAGEMENT_LEDGER_04	Placeholder	Management Ledger 04
			FSI_D_MANAGEMENT_LEDGER_04	Management Ledger 04	Management Ledger 05
			FSI_D_MANAGEMENT_LEDGER_05	Placeholder	Management Ledger 05

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

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	Asset	Assets
			_TXNS	Transaction	Transaction
			FSI_D_LIABILI	Summary	Summary
			TY_TXNS	Liability	Liabilities
			FSI_D_FEE_B	Transaction	Transaction
			ASED_SERVIC	Summary	Summary
			E_TXNS	Fee Based and	Fee Based
			FSI_D_OFF_B	Other Services	Services
ALANCE_SHE	Transaction	Transaction			
ET_TXNS	Summary	Summary			
				Off Balance Sheet	Off Balance Sheet
				Transaction Summary	Transaction Summary

## 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:

Table 5-2 Staging Instrument Data Reports

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

## 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.

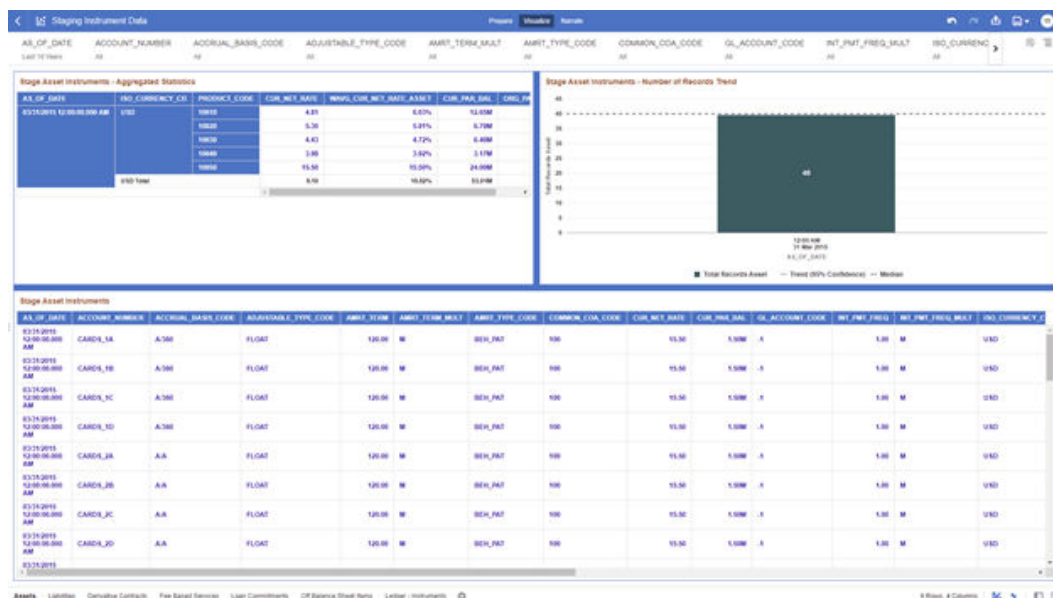
The report displays the underlying data according to the following Charts' logic:

- 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.

**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.

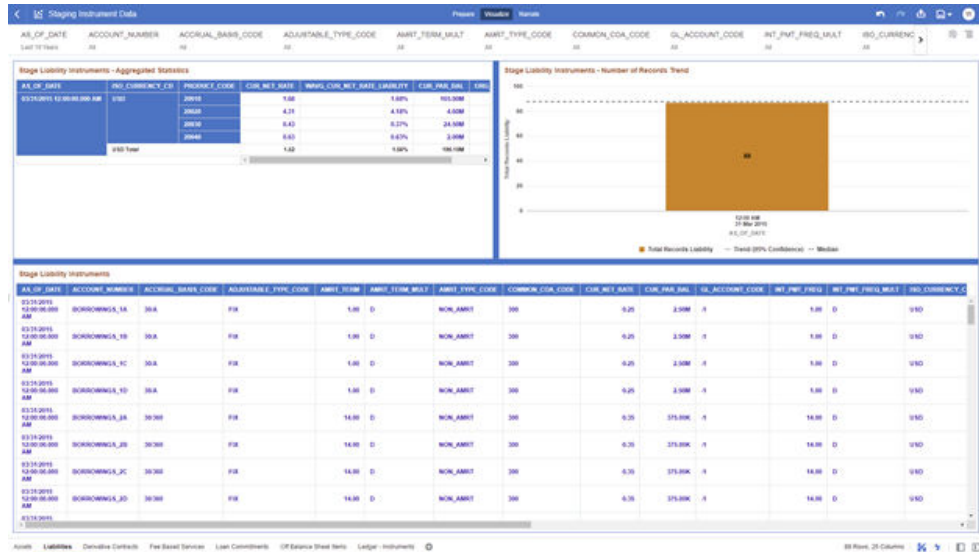
The report displays the underlying data according to the following Charts' logic:

- 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.

**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.

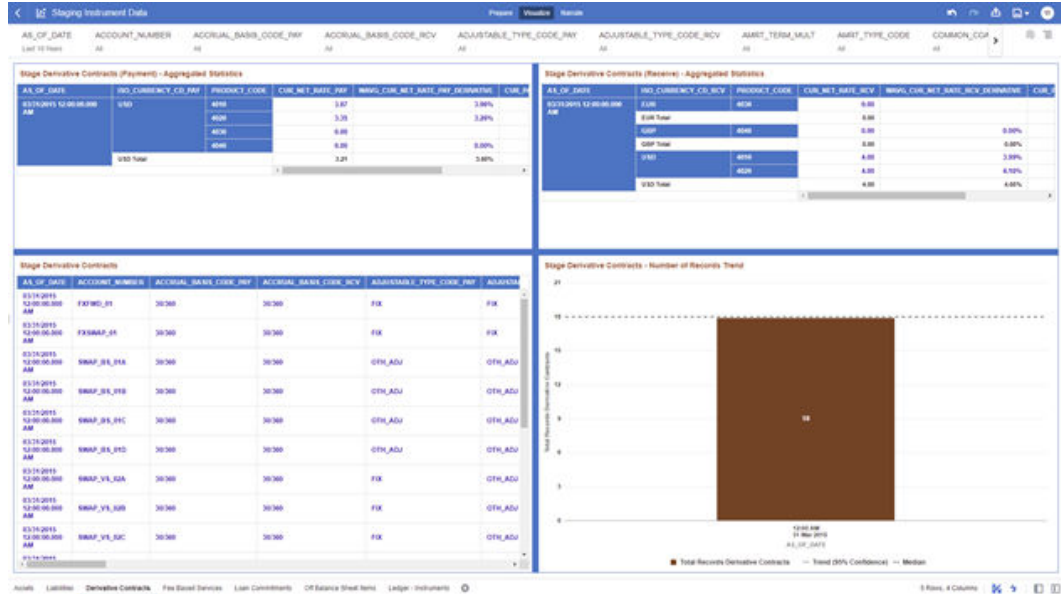
In addition, for CUR\_NET\_RATE, the additional Balance Weighted Rate, WAVG\_CUR\_NET\_RATE\_PAY\_DERIVATIVE, is calculated as the Weighted AVG by CUR\_PAR\_BAL\_PAY.

- 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.

**Figure 5-3 Staging Instrument Data – Derivative Contracts**



## 5.1.4 Fee Based Services

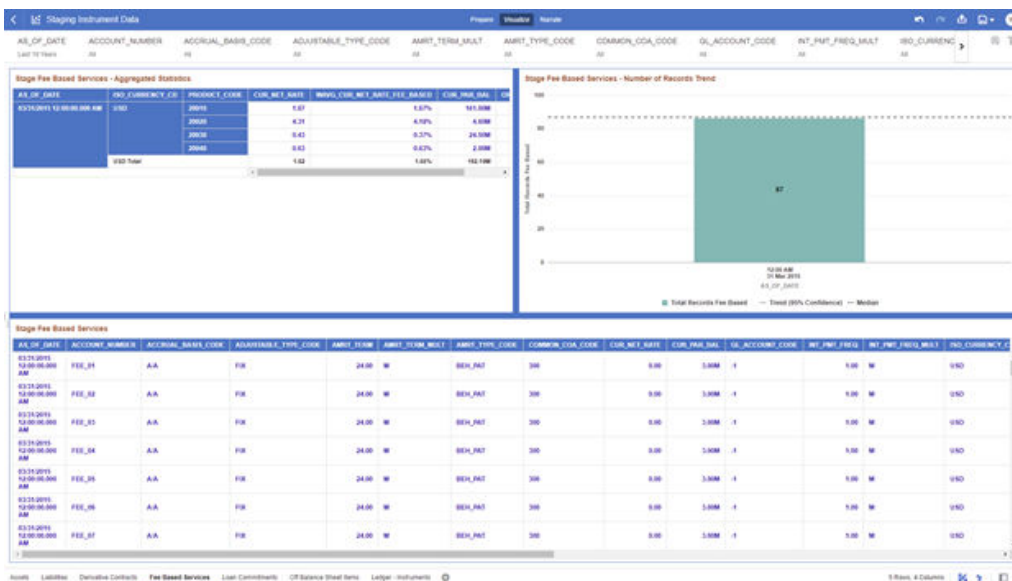
The Fee Based Services Report provides the Analysis Capability on the Stage Fee Based and Other Services Table.

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  
Granular table records at ACCOUNT\_NUMBER level.

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.

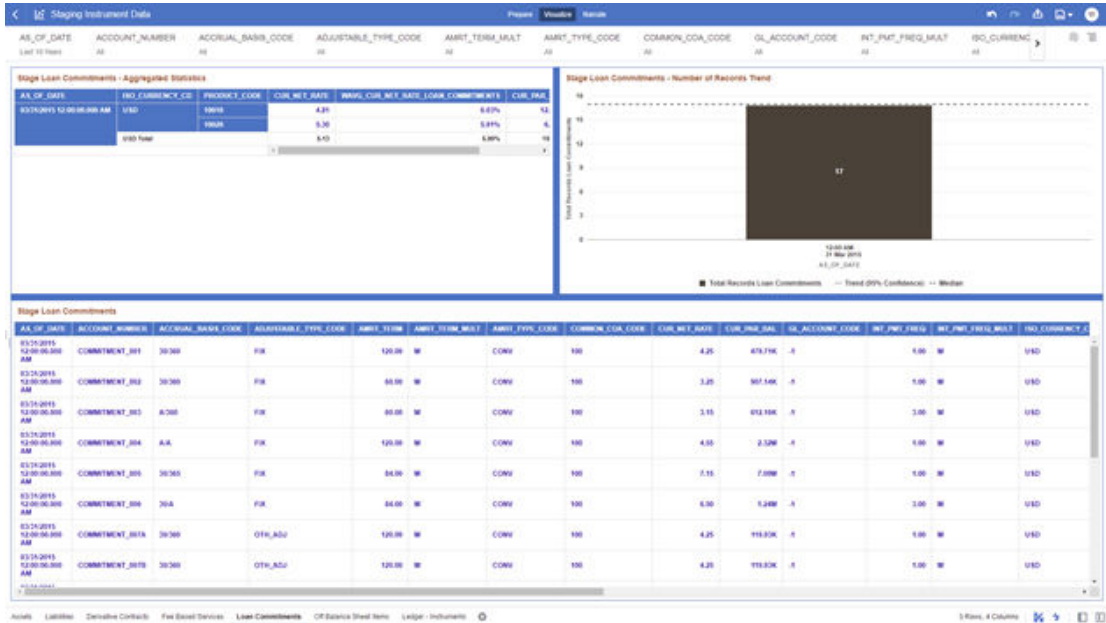
The report displays the underlying data according to the following Charts' logic:

- 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.
- 
- Stage Loan Commitments  
Granular table records at ACCOUNT\_NUMBER level.

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.

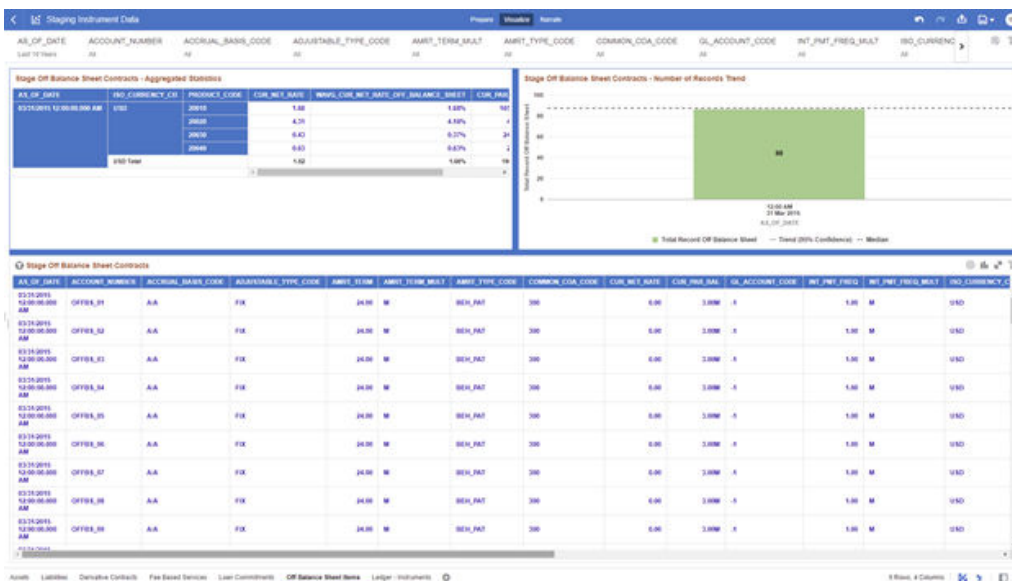
The report displays the underlying data according to the following Charts' logic:

- 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.

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:

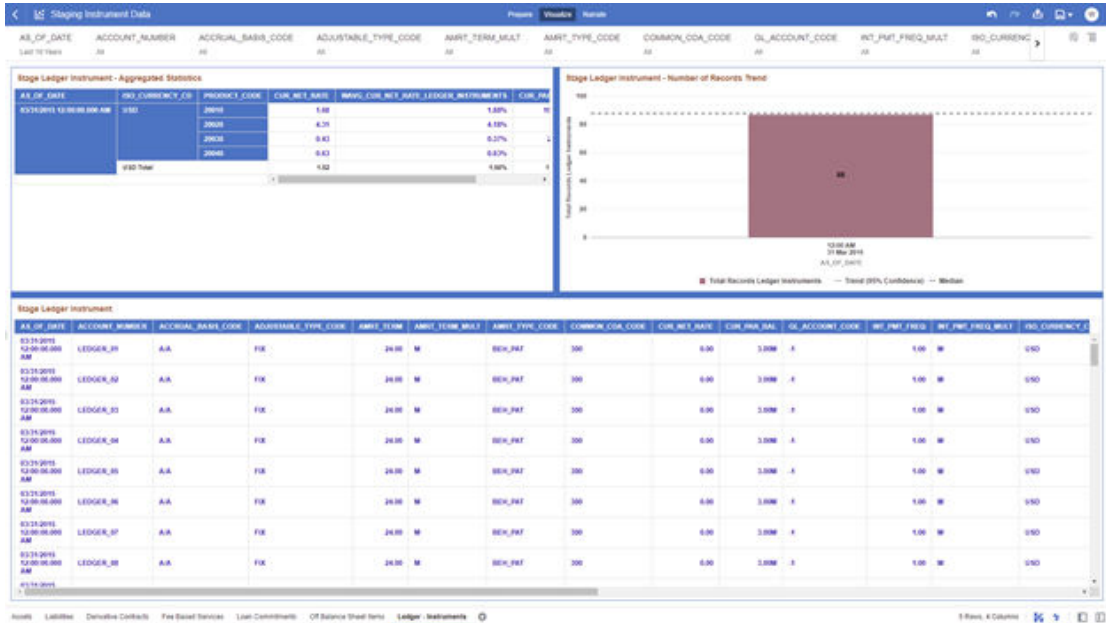
- Stage Ledger Instrument - Aggregated Statistics  
Aggregation for CUR\_PAR\_BAL (sum), ORG\_PAR\_BAL (sum) and CUR\_NET\_RATE (avg) by AS\_OF\_DATE, ISO\_CURRENCY\_CD and PRODUCT\_CODE.

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.



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

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

### 5.2.1 Account Index History

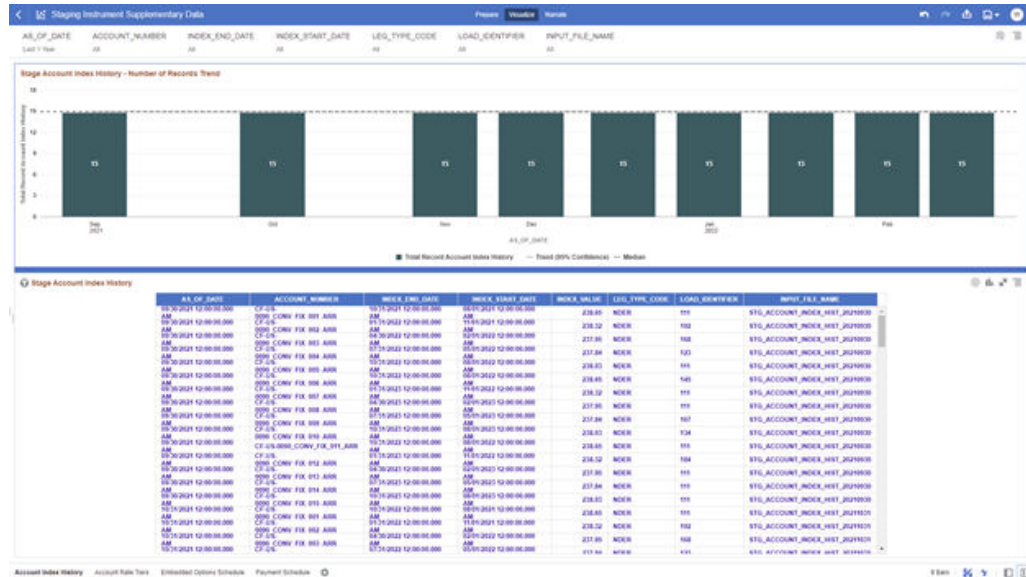
The Account Index History Report provides the analysis capability on the Stage Account Index History Table.

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

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

- 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

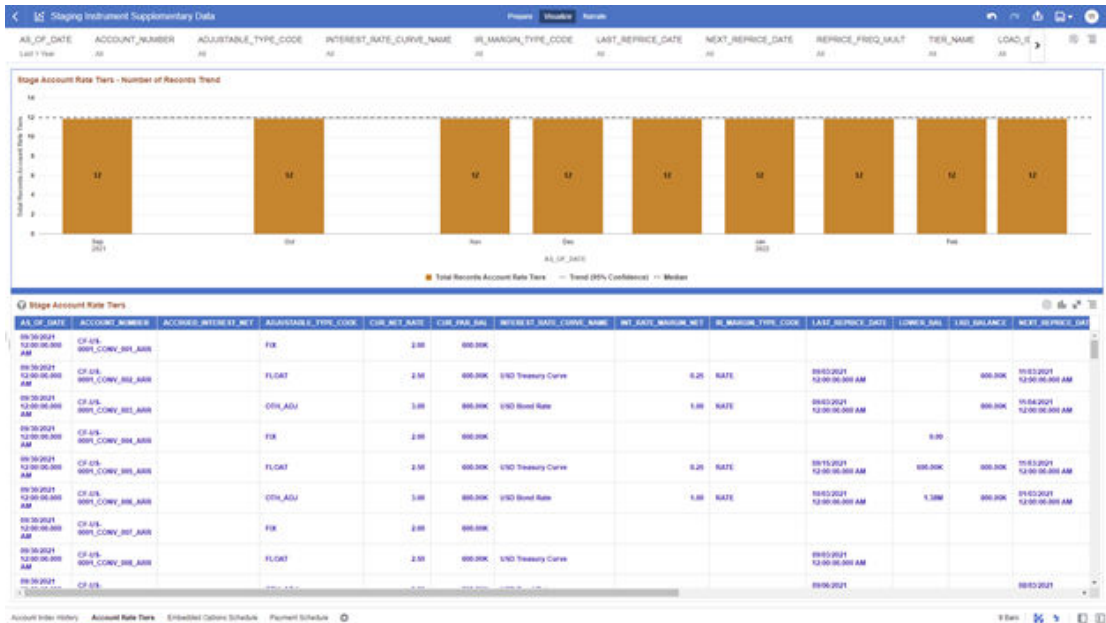
The Account Rate Tiers Report provides the analysis capability on the Stage Account Rate Tiers Table.

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

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

- 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

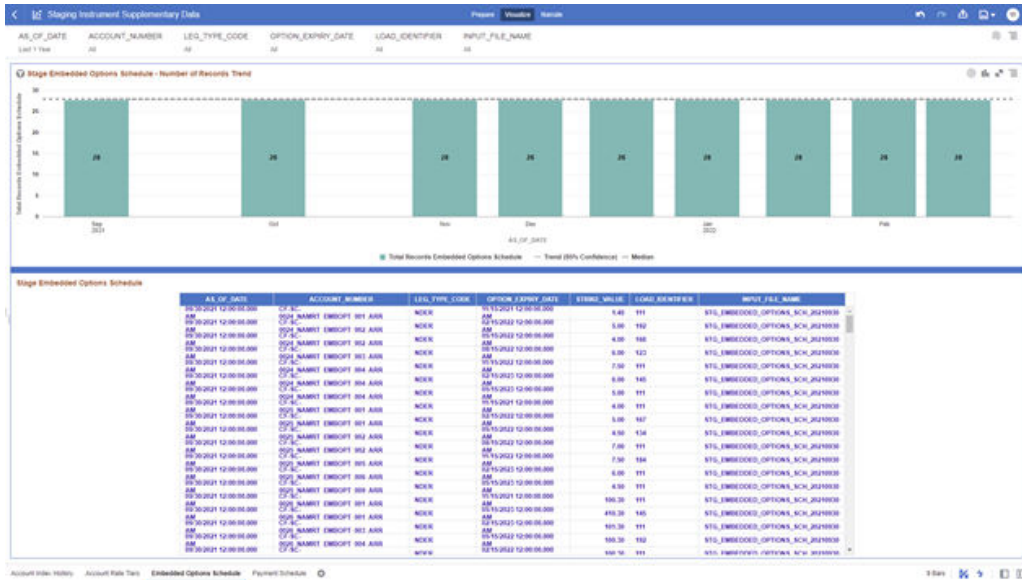
The Embedded Options Schedule Report provides the analysis capability on the Stage Embedded Options Schedule Table.

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

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

- 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

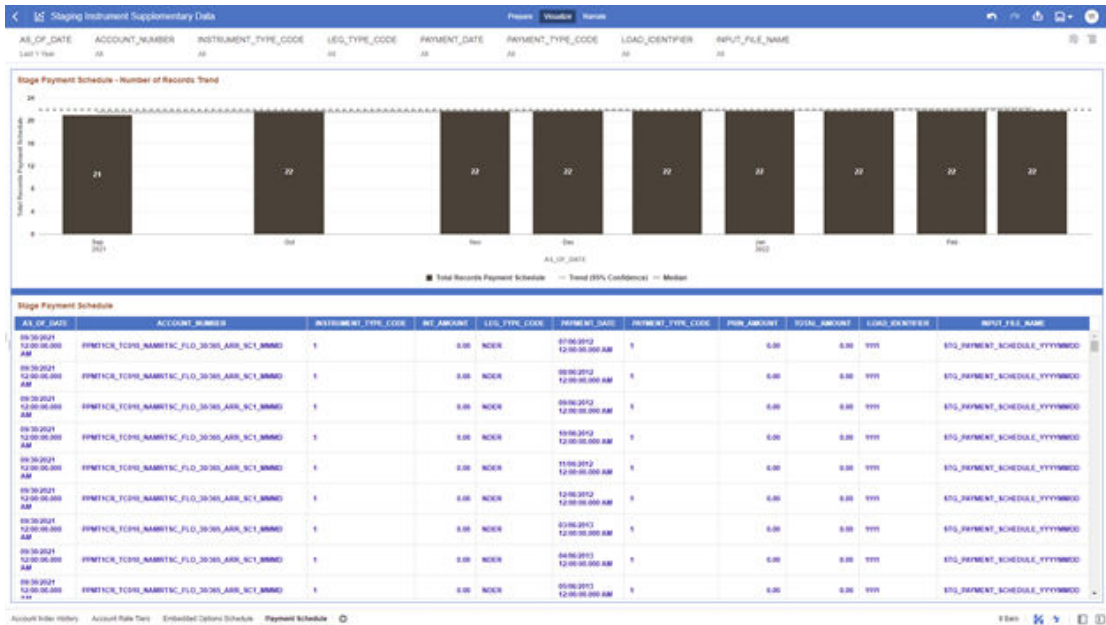
The Payment Schedule Report provides the analysis capability on the Stage Payment Schedule Table.

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

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

- 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:

**Table 5-4 Staging Ledger Data Reports**

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

### 5.3.1 Management Ledger

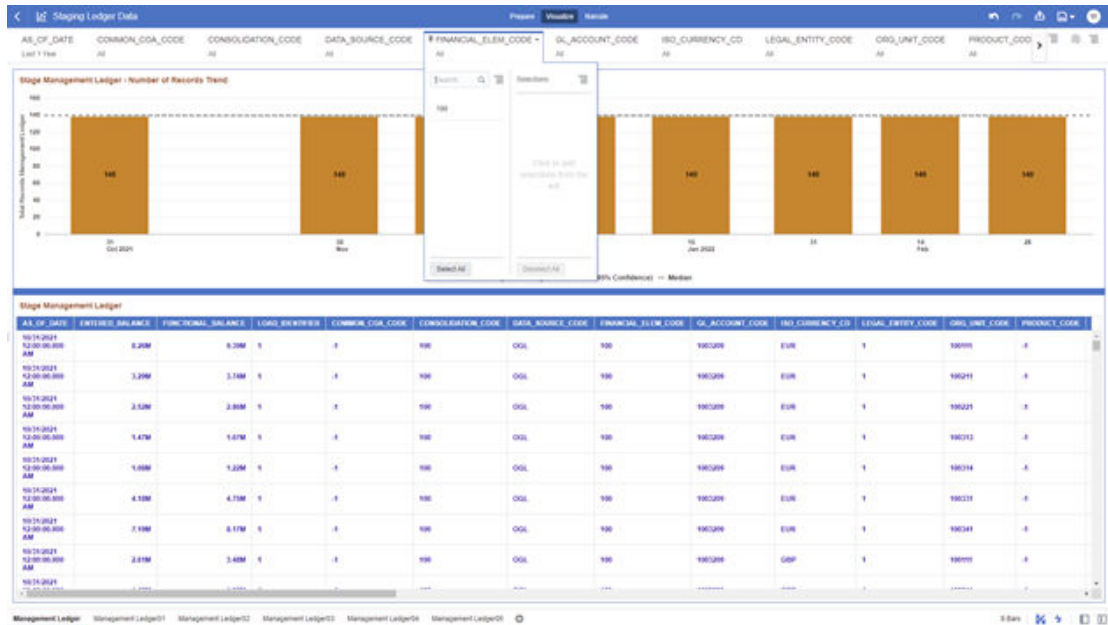
The Management Ledger Report provides the analysis capability on the Stage Management Ledger Table.

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

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

- 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

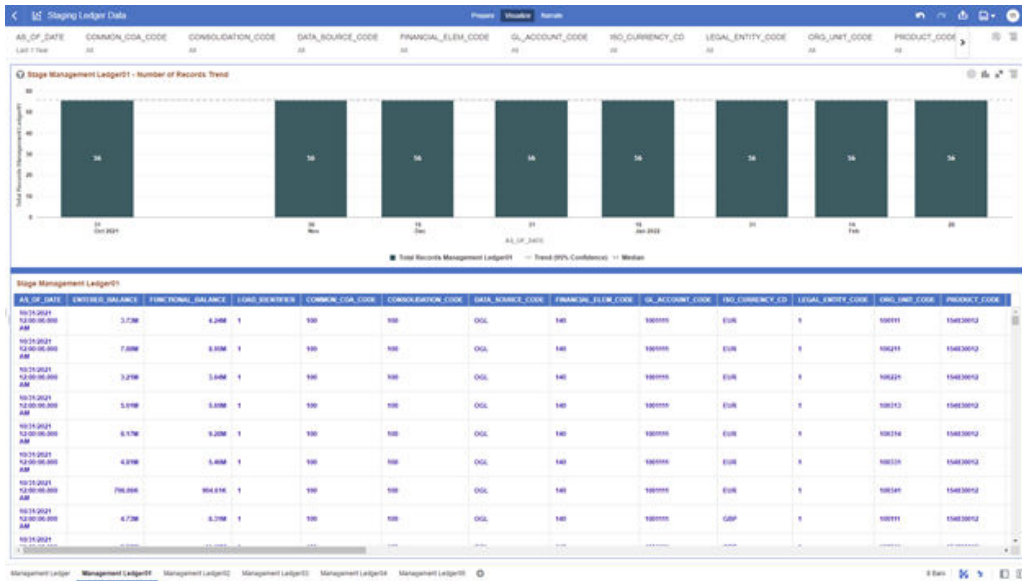
The Management Ledger01 Report provides the analysis capability on the Stage Placeholder Management Ledger 01 table.

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

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

- 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.

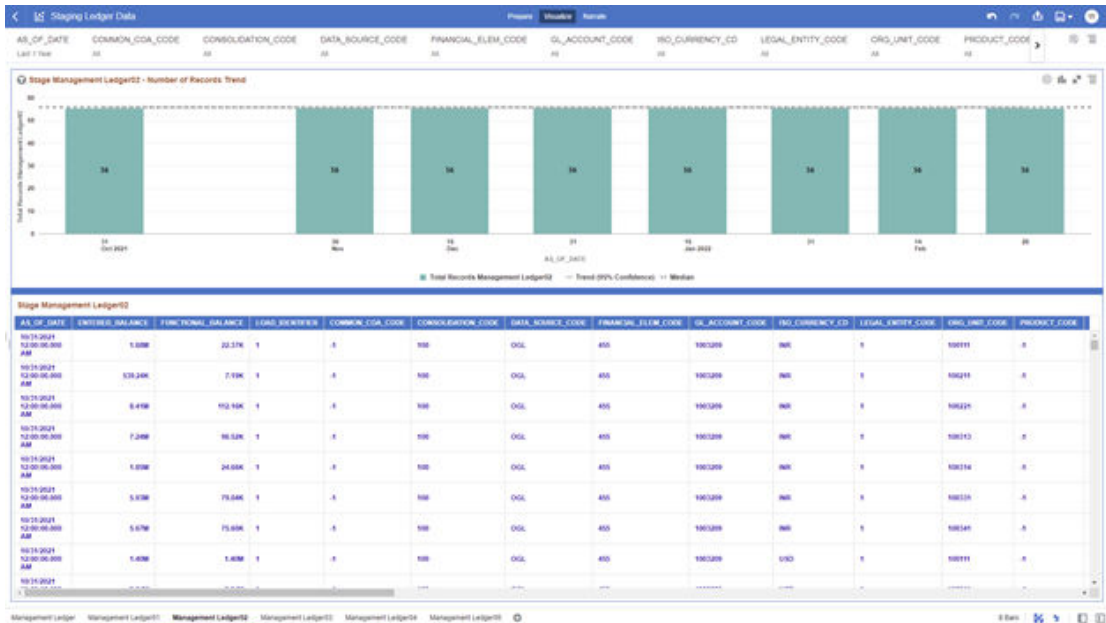
You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

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

- 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

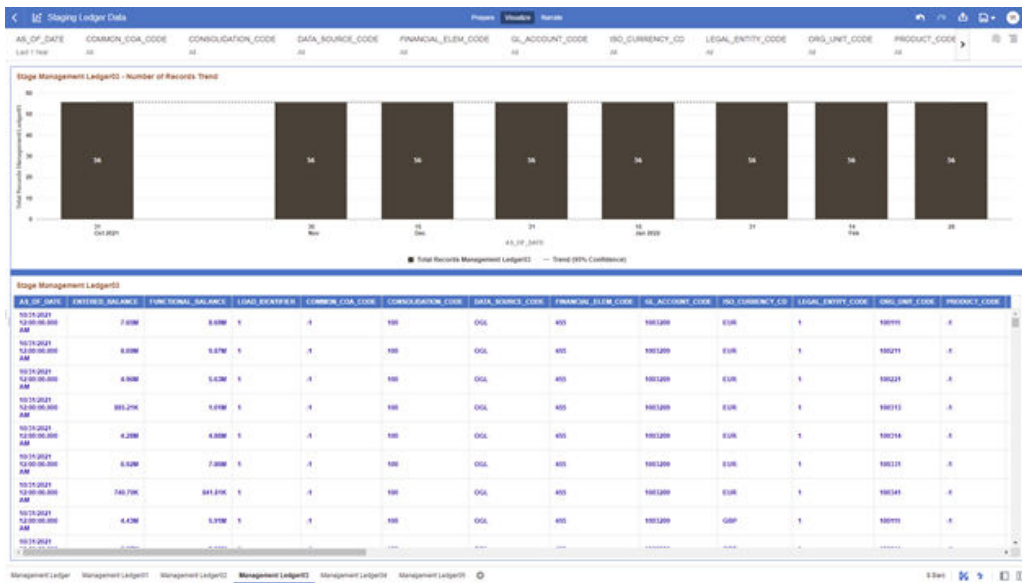
The Management Ledger03 Report provides the analysis capability on the Stage Placeholder Management Ledger 03 table.

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

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

- 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

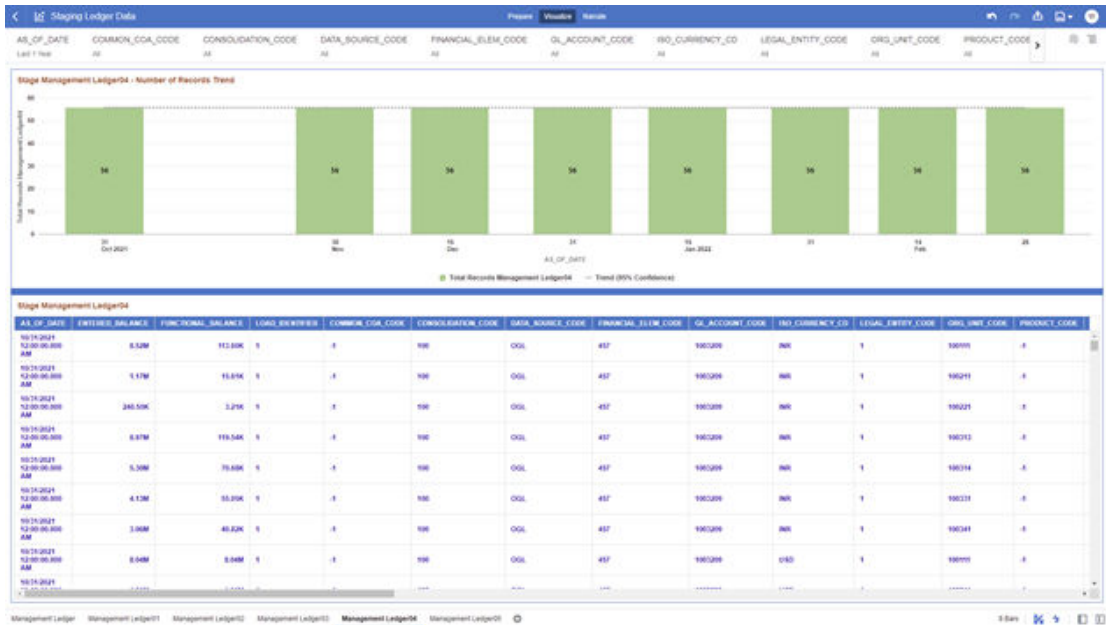
The Management Ledger04 Report provides the analysis capability on the Stage Placeholder Management Ledger 04 table.

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

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

- 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

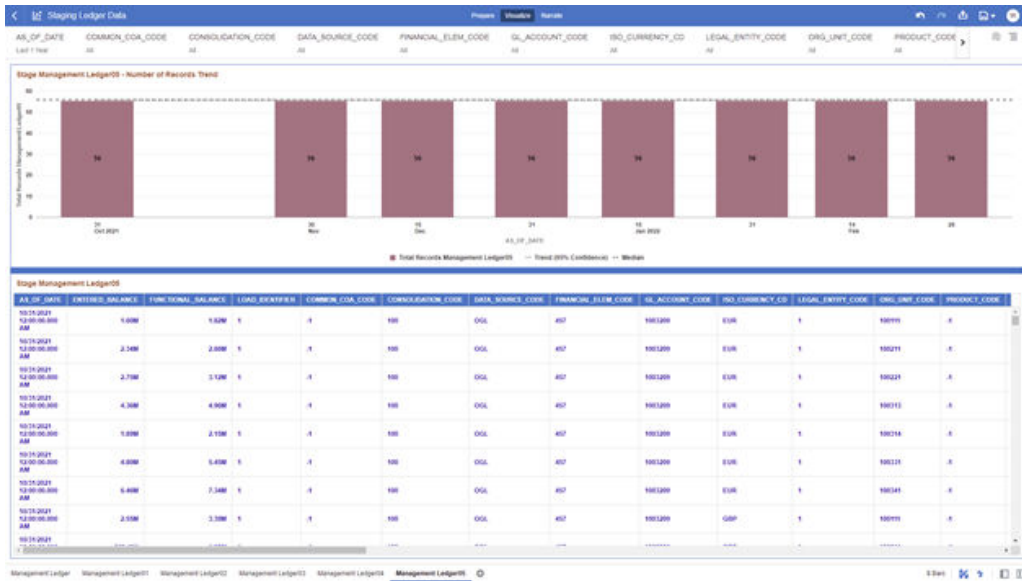
The Management Ledger05 Report provides the analysis capability on the Stage Placeholder Management Ledger 05 table.

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

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

- 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_ASSET	Asset Instruments	Assets	
			FSI_D LIABILITY	Liability Instruments	Liabilities	
			FSI_D_DERIVATIVE	Derivative Contracts	Derivative Contracts	
			FSI_D_FEE_BASED_SERVICE	Fee Based and Other Services	Fee Based Services	
			FSI_D_LOAN_COMMITMENTS	Loan Commitments	Loan Commitments	
			FSI_D_OFF_BALANCE_SHEET	Off Balance Sheet Contracts	Off Balance Sheet Instruments	
			FSI_D_LEDGER_INSTRUMENT	Ledger Instrument	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.

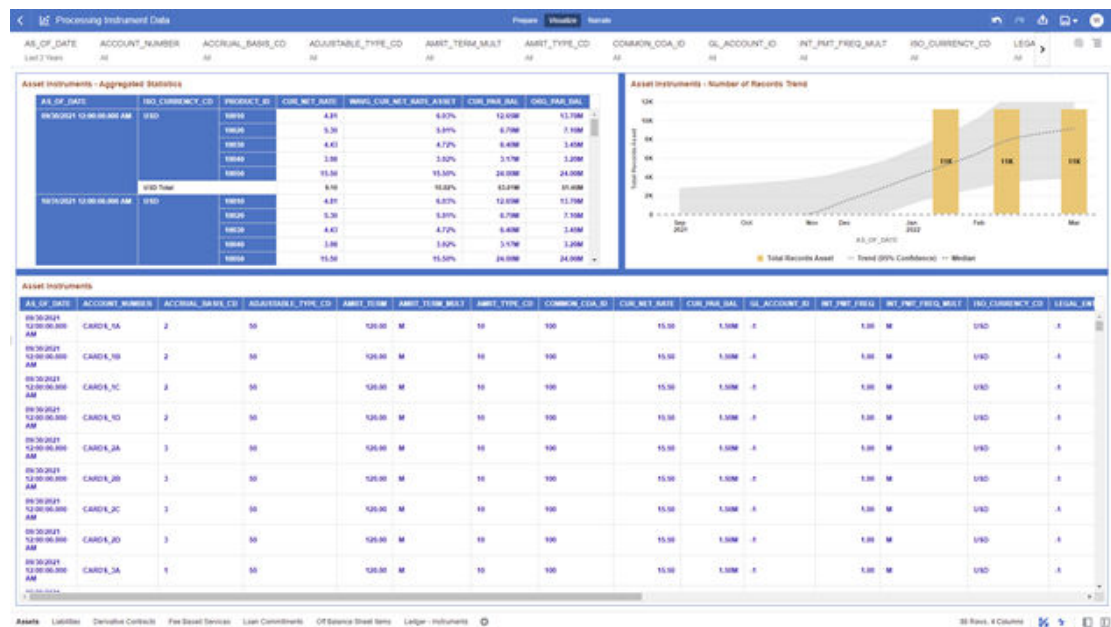
The report displays the underlying data according to the following Charts' logic:

- 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.

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.

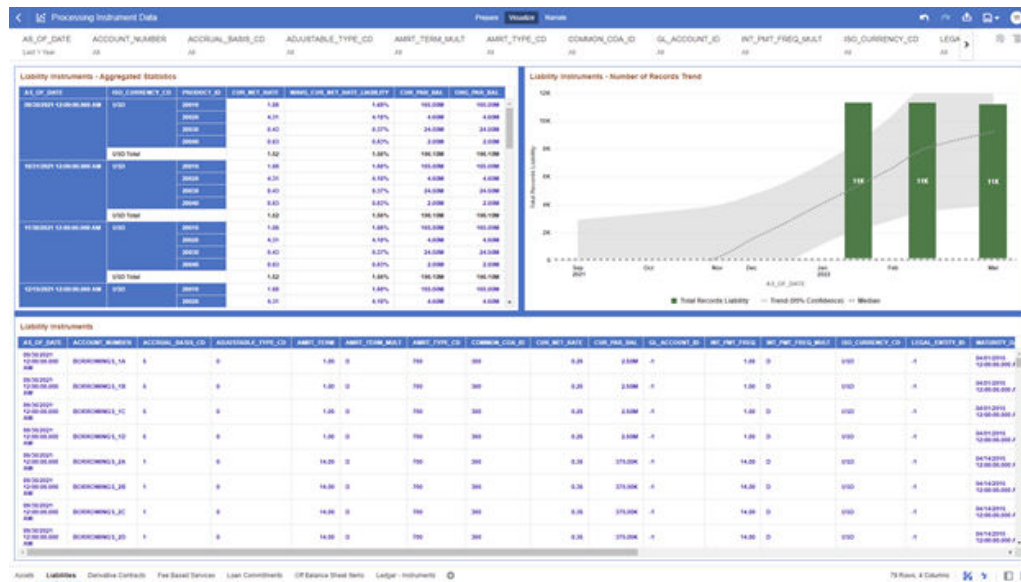
The report displays the underlying data according to the following Charts' logic:

- 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.

**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:

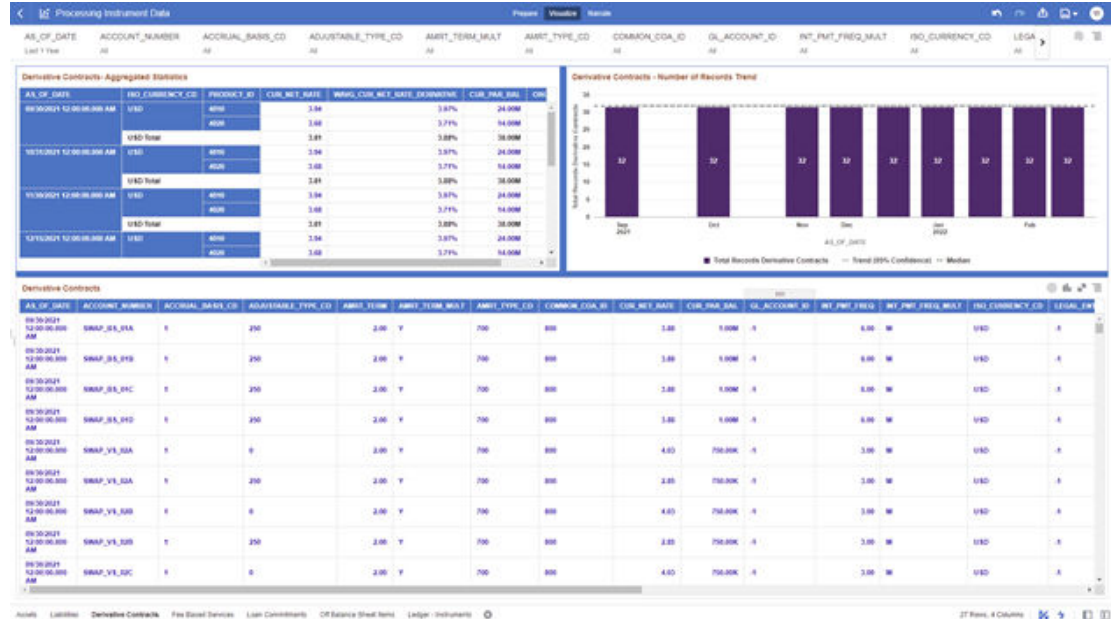
- Derivative Contracts - Aggregated Statistics  
Aggregation for CUR\_PAR\_BAL (sum), ORG\_PAR\_BAL (sum) and CUR\_NET\_RATE (avg) by AS\_OF\_DATE, ISO\_CURRENCY\_CD and PRODUCT\_ID.

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.

**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.

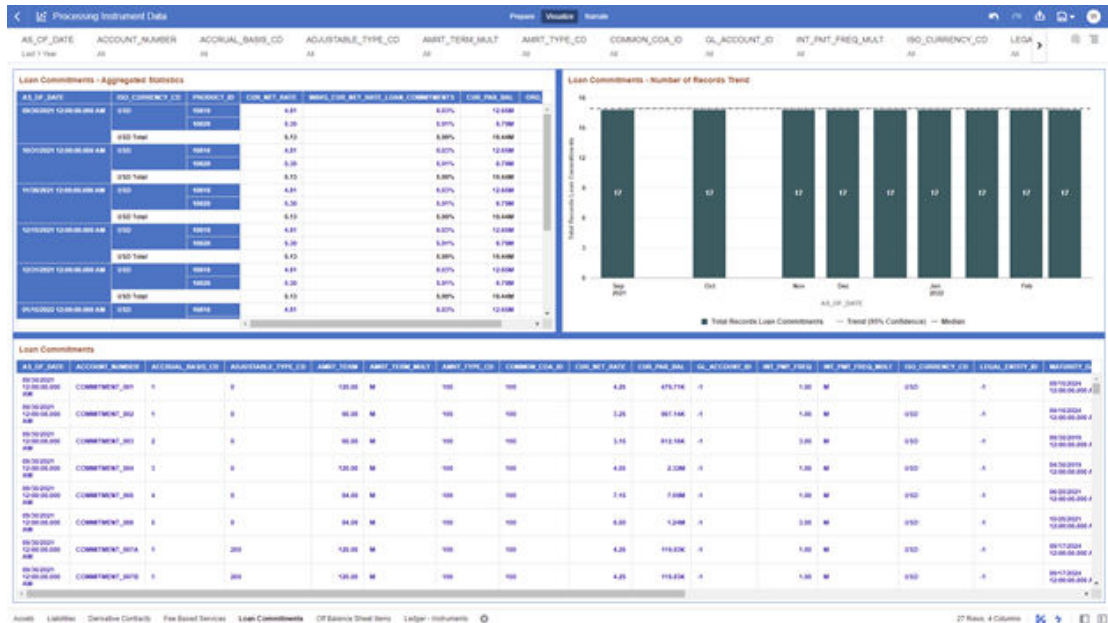
In addition, for CUR\_NET\_RATE, the additional Balance Weighted Rate, WAVG\_CUR\_NET\_RATE\_FEE\_BASED, is calculated as the Weighted AVG by CUR\_PAR\_BAL.

- 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.





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.

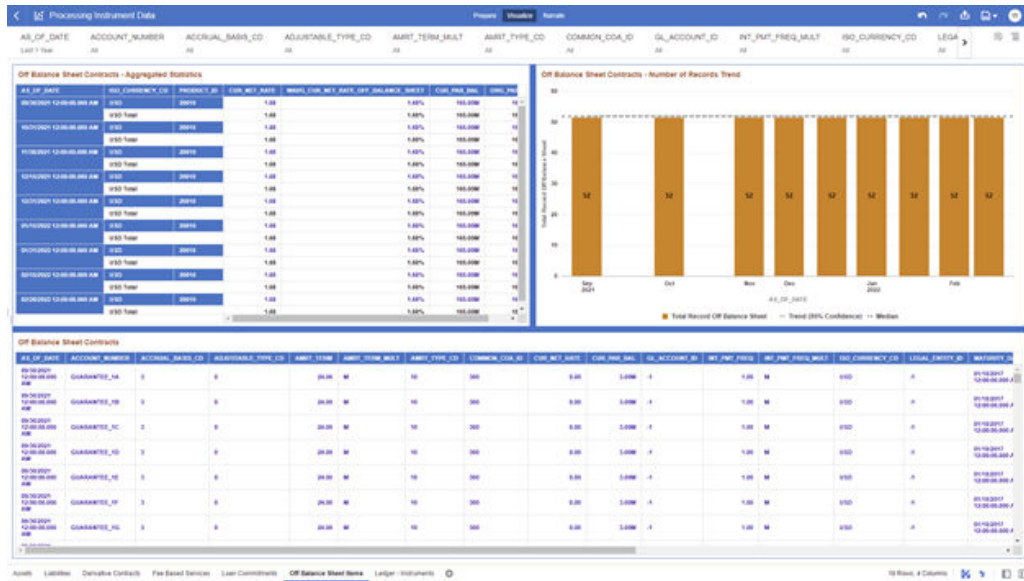
The report displays the underlying data according to the following Charts' logic:

- 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.

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.

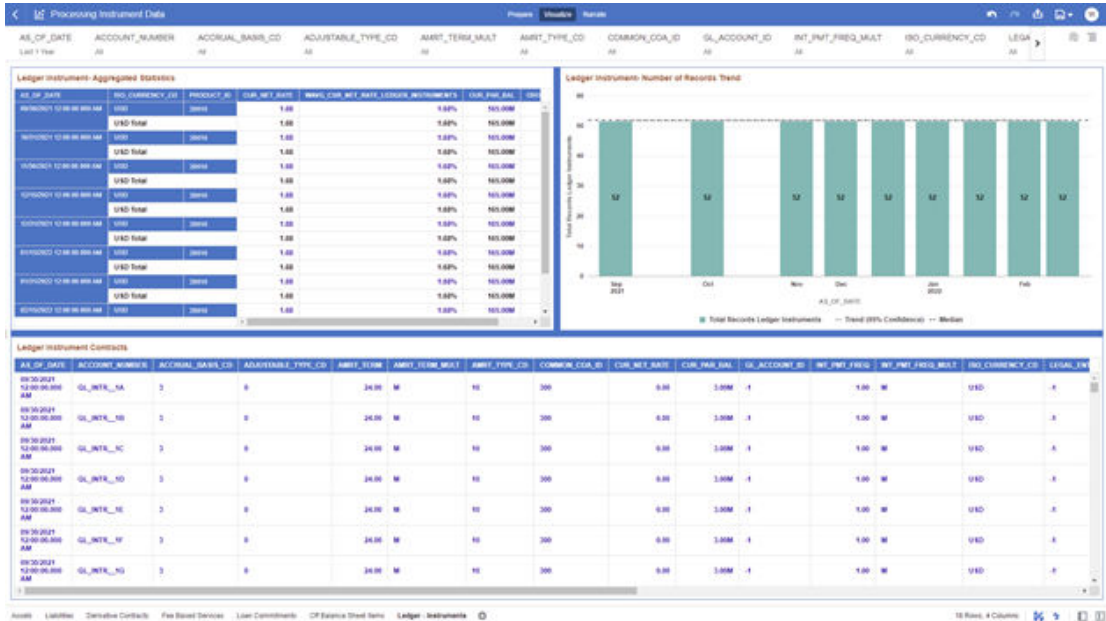
The report displays the underlying data according to the following Charts' logic:

- 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.

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 Instrument Supplementary Data

Report Name	Scope	Table Layer	Physical Table List	Logical Table List	Report Canvas Name
Processing Instrument Supplementary Data	Instrument Supplementary	FSI-Processing	FSI_D_ACCOUNT_INDEX_HISTORY	Account Index History	Account Index History
			FSI_D_ACCOUNT_INDEX_TIER	Account Rate Tiers	Account Rate Tiers
			FSI_D_ACCOUNT_INDEX_OPTION	Embedded Options	Embedded Options
			FSI_D_ACCOUNT_INDEX_SCHEDULE	Schedule	Schedule
			FSI_D_ACCOUNT_INDEX_PAYMENT_SCHEDULE	Payment Schedule	Payment Schedule
			FSI_D_ACCOUNT_INDEX_SCHEDULE	Schedule	Schedule
			FSI_D_ACCOUNT_INDEX_SCHEDULE	Schedule	Schedule

### 5.5.1 Account Index History

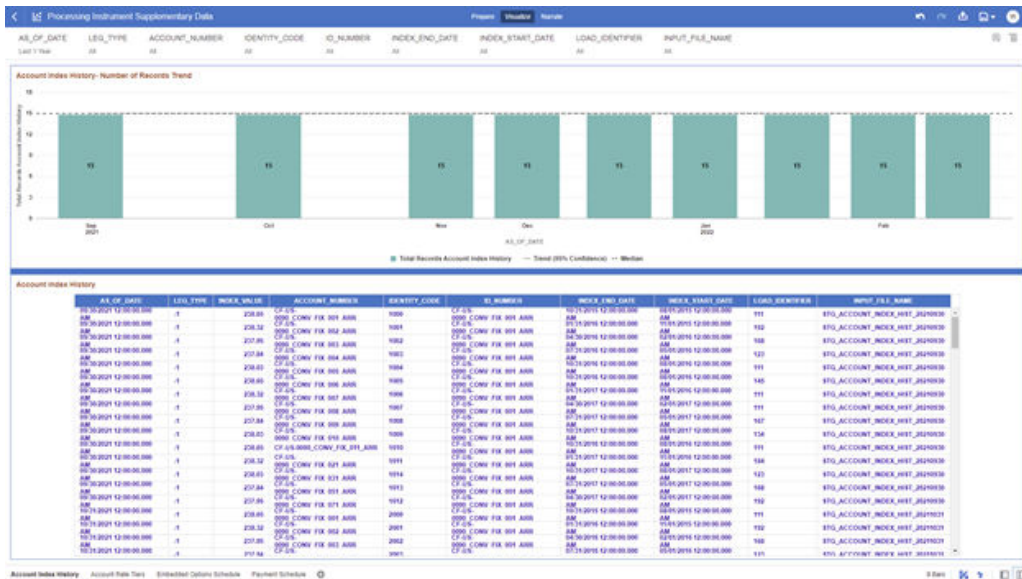
The Account Index History Report provides the analysis capability on the Account Index History Table.

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.

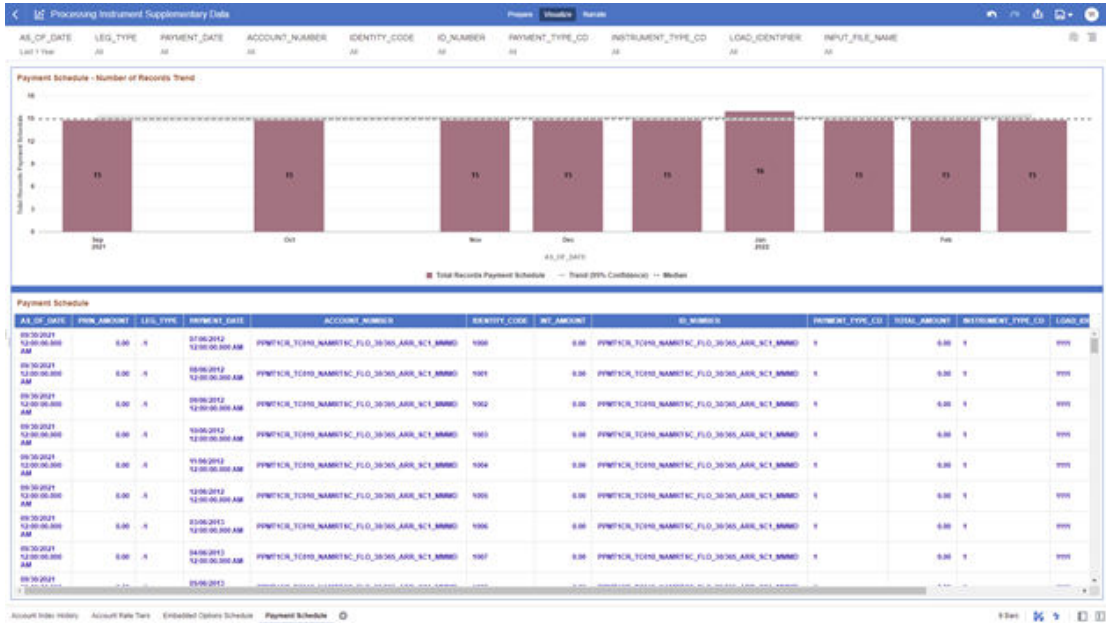
The report displays the underlying data according to the following Charts' logic:

- 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.





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

Report Name	Scope	Table Layer	Physical Table List	Logical Table List	Report Canvas Name
Processing Ledger Data	Ledger	FSI-Processing	FSI_D_MANAGEMENT_LEDGER	Management Ledger	Management Ledger
			FSI_D_MANAGEMENT_LEDGER_01	Management Ledger 01	Management Ledger 01
			FSI_D_MANAGEMENT_LEDGER_02	Management Ledger 02	Management Ledger 02
			FSI_D_MANAGEMENT_LEDGER_03	Management Ledger 03	Management Ledger 03
			FSI_D_MANAGEMENT_LEDGER_04	Management Ledger 04	Management Ledger 04
			FSI_D_MANAGEMENT_LEDGER_05	Management Ledger 05	Management Ledger 05
			FSI_D_MANAGEMENT_LEDGER_06	Management Ledger 06	Management Ledger 06
			FSI_D_MANAGEMENT_LEDGER_07	Management Ledger 07	Management Ledger 07
			FSI_D_MANAGEMENT_LEDGER_08	Management Ledger 08	Management Ledger 08
			FSI_D_MANAGEMENT_LEDGER_09	Management Ledger 09	Management Ledger 09

## 5.6.1 Management Ledger

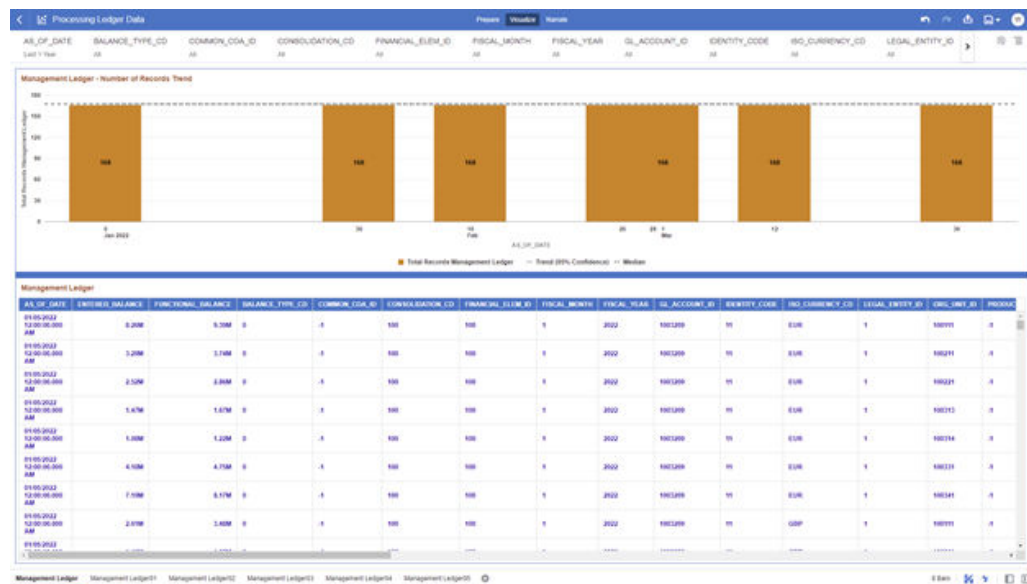
The Management Ledger Report provides the analysis capability on the Management Ledger Table.

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.

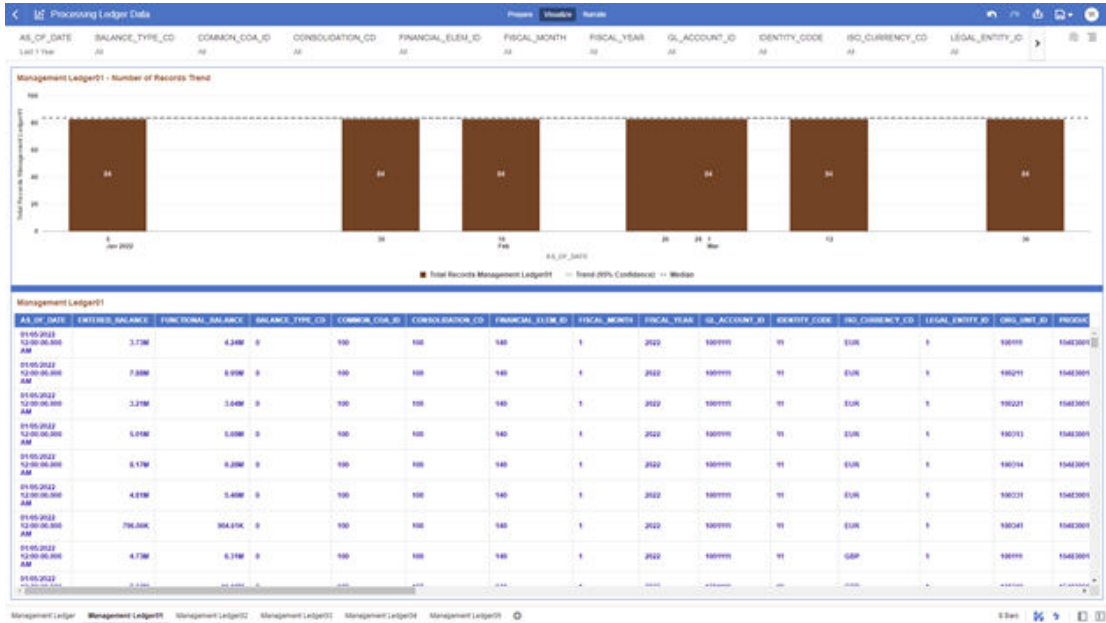
You can use a series of Report Prompts to filter the data according to Functional Key Attributes pertaining to the Table Columns Perimeter.

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

- 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

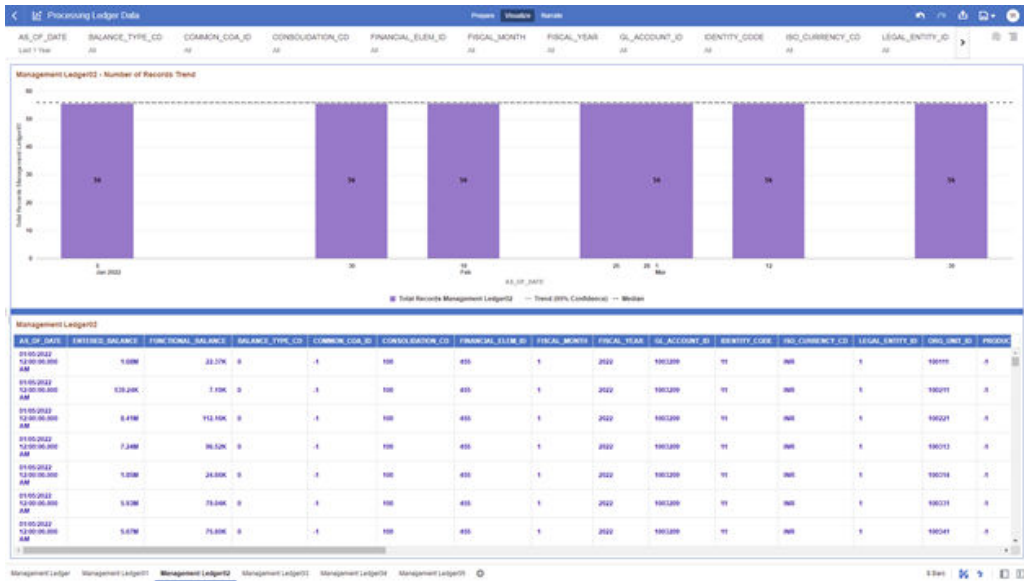
The Management Ledger02 Report provides the analysis capability on the Placeholder Management Ledger 02 Table.

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

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

- 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

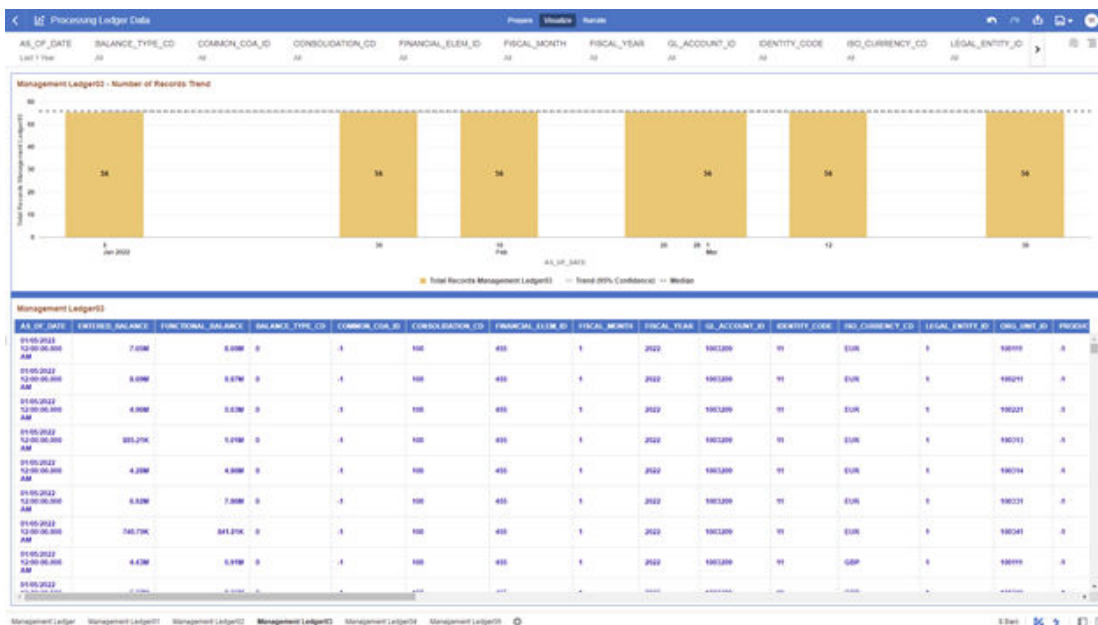
The Management Ledger03 Report provides the analysis capability on the Placeholder Management Ledger 03 Table.

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

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

- 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

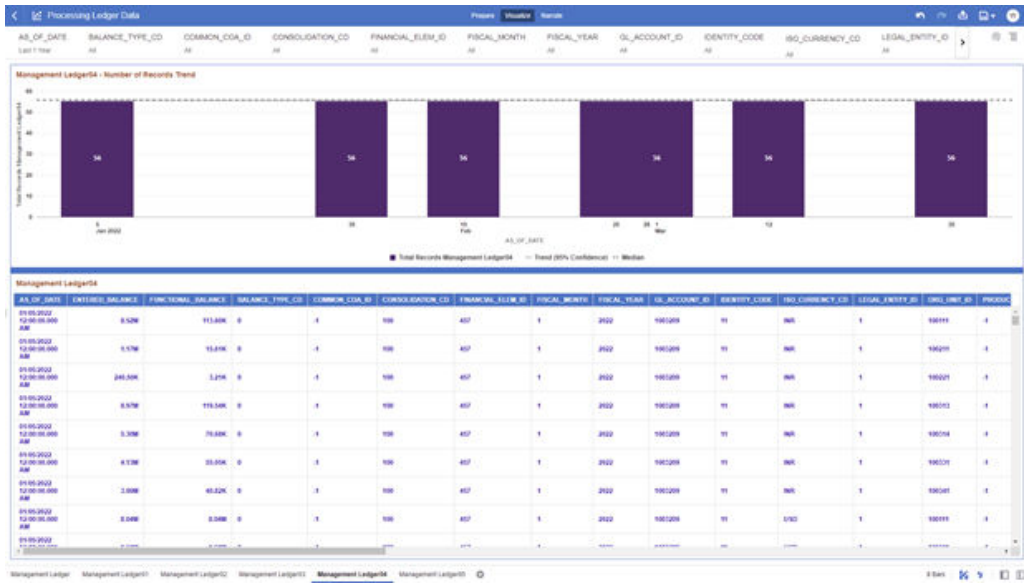
The Management Ledger04 Report provides the analysis capability on the Placeholder Management Ledger 04 Table.

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

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

- 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.

**Figure 5-33 Processing Ledger Data – Management Ledger04**



## 5.6.6 Management Ledger05

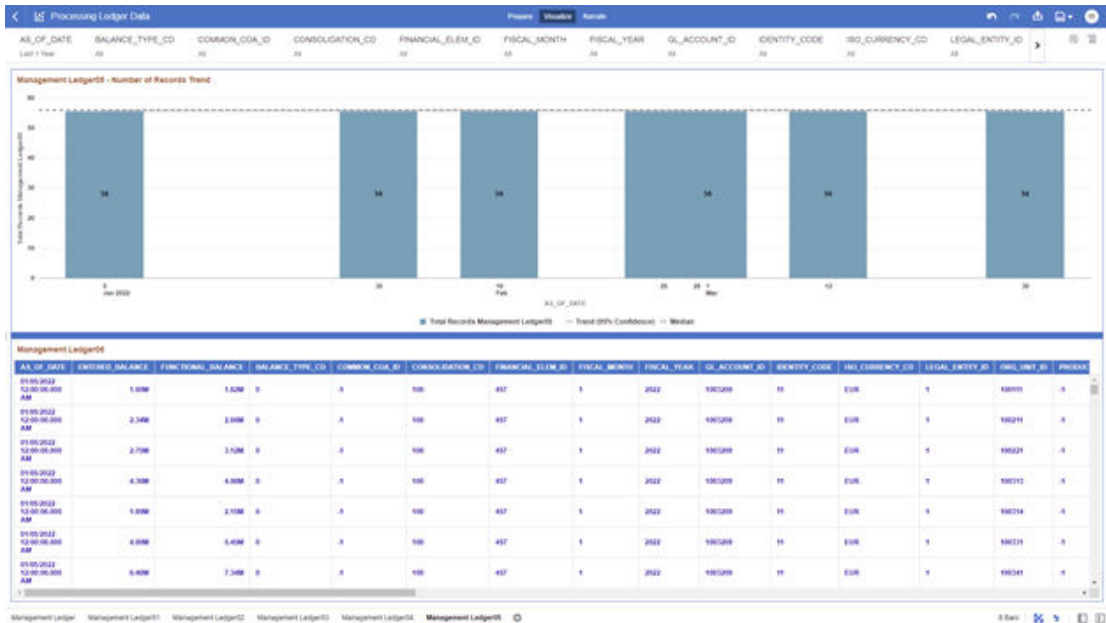
The Management Ledger05 Report provides the analysis capability on the Placeholder Management Ledger 05 Table.

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

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

- 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

Reporting 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	Asset Transaction Summary	Assets Transaction Summary
			FSI_D_LIABILITY_TXNS	Liability Transaction Summary	Liabilities Transaction Summary
			FSI_D_FEE_BASED_SERVICE_TXNS	Fee Based and Other Services Transaction Summary	Fee Based Services Transaction Summary
			FSI_D_OFF_BALANCE_SHEET_TXNS	Off Balance Sheet Transaction Summary	Off Balance Sheet Transaction Summary
			FSI_D_TRANSACTION_SUMMARY	Transaction Summary	Transaction Summary
			FSI_D_TRANSACTION_SUMMARY	Transaction Summary	Transaction Summary
			FSI_D_TRANSACTION_SUMMARY	Transaction Summary	Transaction Summary

### 5.7.1 Asset Transaction Summary

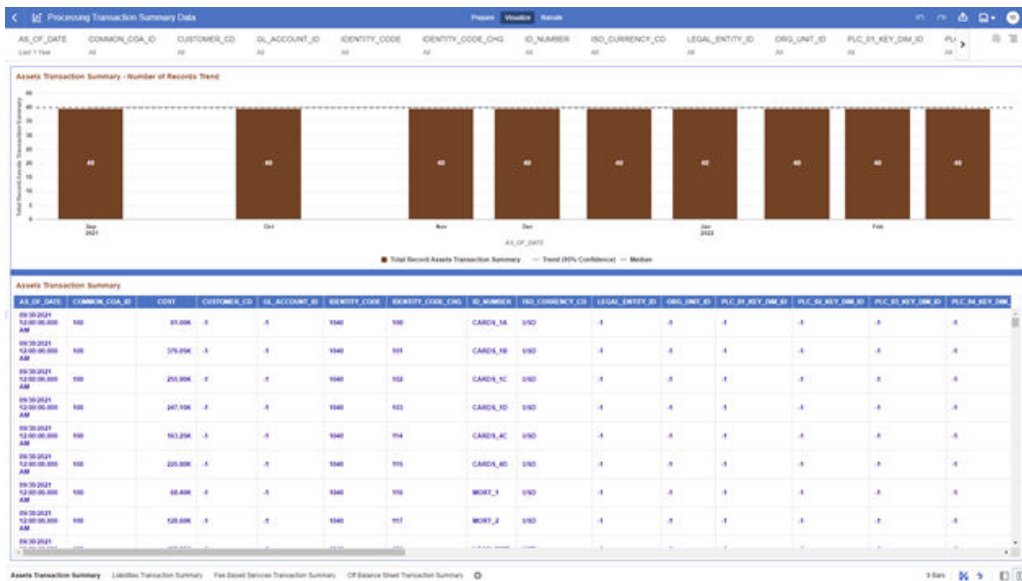
The Asset Transaction Summary Report provides the analysis capability on the Assets Transaction Summary Table.

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

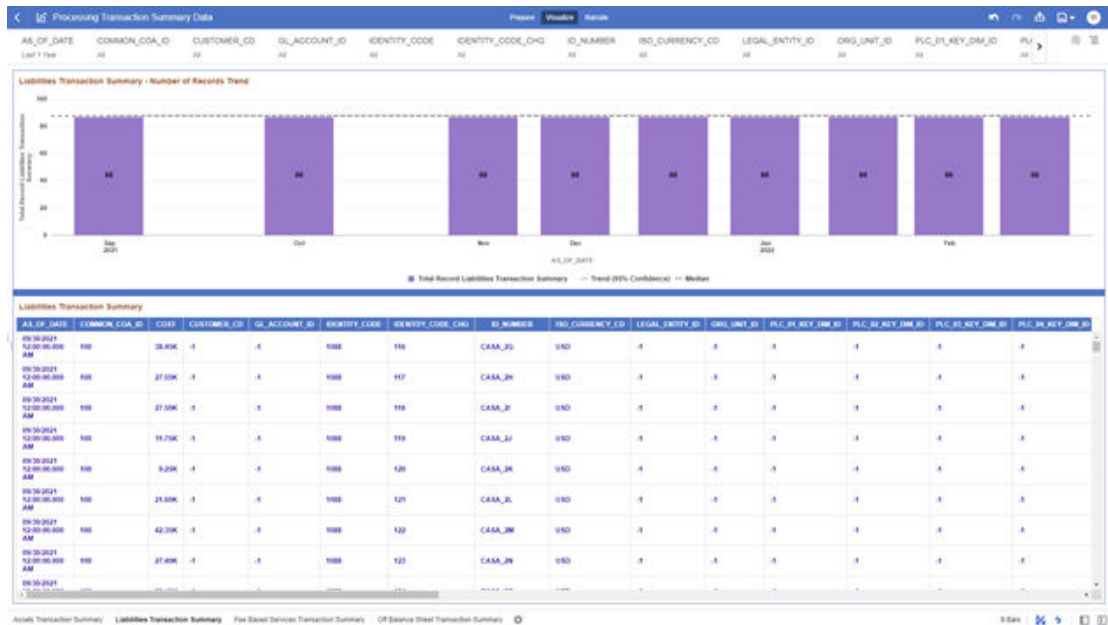
The Liabilities Transaction Summary Report provides the analysis capability on the Liability Transaction Summary Table.

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

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

- 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.

**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.

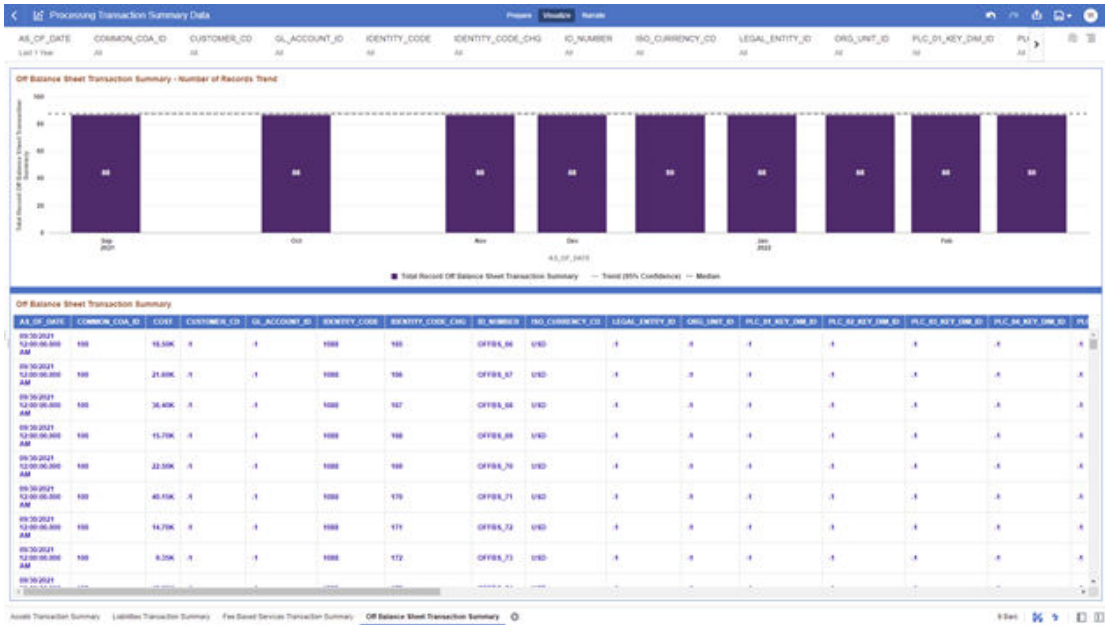
The report displays the underlying data according to the following Charts' logic:

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



# 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**

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.
2. 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 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**

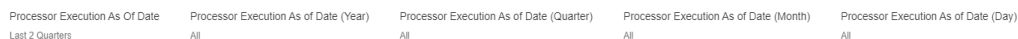
Group Name	Subgroup Name	Rule Name	Rule Identifier	Condition Columns
All	All	All	All	All

- 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

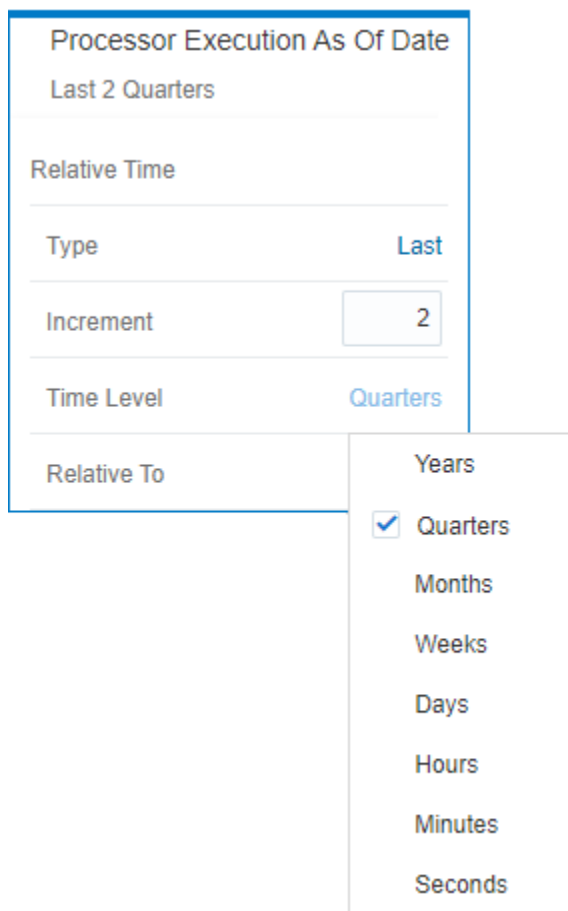
You can use a series of Report Prompts to filter the data according to Functional Key Attributes as described below:

**Figure 7-2 Canvas Prompt Filters for Time Dimension**



- Processor Execution As of Date: 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**



- 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.

**Figure 7-6 Data Action configuration**

**Data Actions**

Actions +

▾ Navigate to Message Log ×

Name

Type  ▾

Anchor To  +

Target

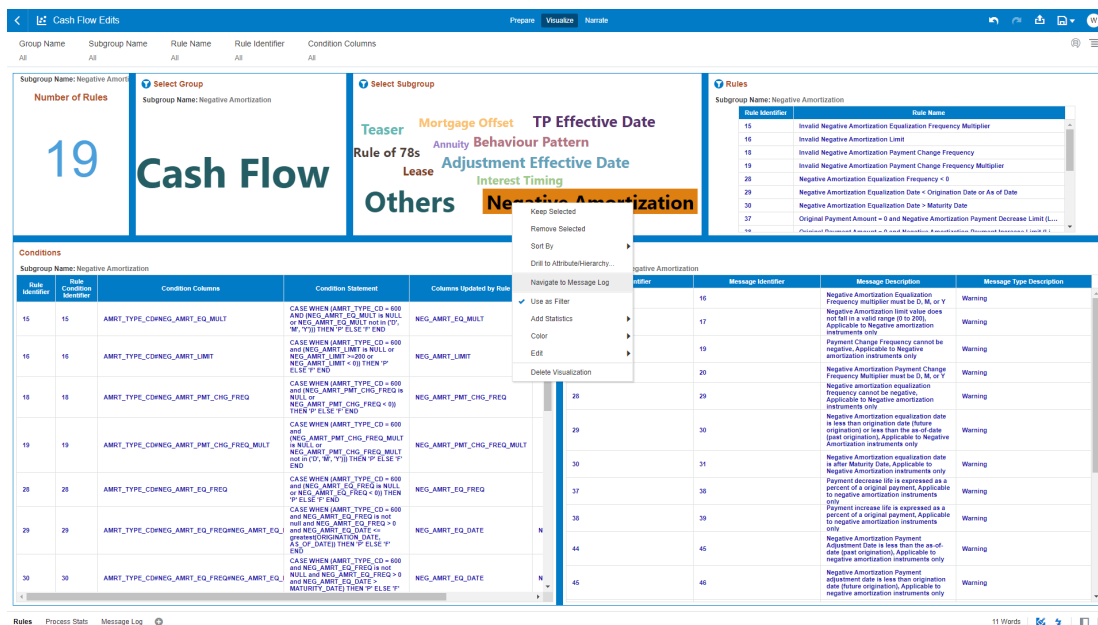
Canvas Link  ▾

Pass Values  ▾

Supports Multiple Selection  On



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 Group**The chart provides you with a selection capability for the desired Group of rules
- **Select Subgroup**The 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

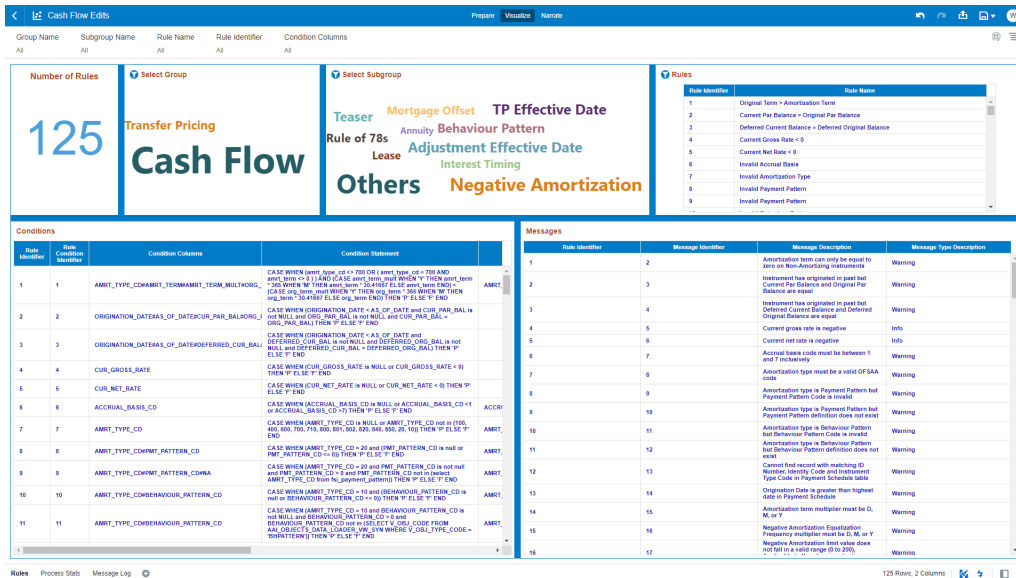
- **Messages**

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**



## 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<sup>1</sup> 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**

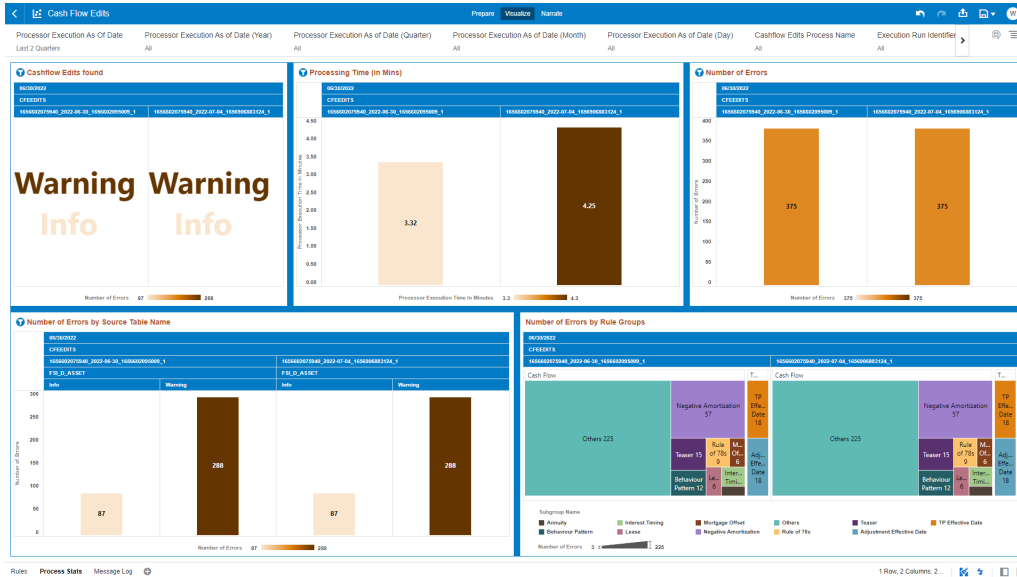
The chart reports the trend analysis of the Number of Errors for each Cash Flow Edit execution with respect to Processor Execution As of Date and the Rule Group/Subgroup.

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".

Figure 7-10 “Message Log” Report

Message Log						
Cashflow Edits Process Name	Processor Execution As of Date (Day)	Execution Run Identifier	Account Number	Source Table Name	Rule Name	Message Description
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Adjustable Negative Amortization Instrument has Reprice Frequency = 0	Reprice Frequency cannot be zero for Adjustable Negative Amortization Instrument
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Adjustable Rate Instrument has Invalid Interest Rate Code	Interest rate code must be valid for adjustable rate instruments
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Adjustable Type is fixed rate for Negative amortization instrument	Negative amortization instruments cannot have fixed adjustable type code
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Adjustable Type is not fixed but Reprice Frequency is 0	Repricing frequency and adjustable type code are inconsistent
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Amortization Type / Accrual Basis Error	Accrual basis code cannot have a 30 day month assumption on instruments with payment frequency multiplier in days or defined by a payment schedule
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Amortization Type is conventional but interest timing is Advance	Interest type can only be areas for conventionally amortizing instruments.
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Amortization type is Rule of 72's but Adjustable Type is not fixed	Rule of 72's instrument should only have a fixed adjustable type code.
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Amortization type is Rule of 72's but Reprice Frequency is not 0	Rule of 72's instruments are implicitly fixed rate.
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Balance on Last Reprice Date = 0	The balance as of the last repricing date cannot be equal to 0
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Behaviour Type Code is Null	Behaviour Type Code is Null, defaulted to 1 (Non-Maturity)
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Calculated Offset Balance > Current Par Balance	Calculated Offset Balance is higher than Current Par Balance
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Current Gross Rate < 0	Current gross rate is negative
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Current Net Rate < 0	Current net rate is negative
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Current Par Balance < 0	Instruments with Current Par Balance zero are not processed.
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Current Par Balance = Original Par Balance	Instrument has originated in past but Current Par Balance and Original Par Balance are equal
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Current Payment and Current Par Balance have opposite signs	Current payment and current par balance can not have opposite signs
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Current Payment is greater than Life Pay Cap	Current payment is greater than maximum payment amount. Applicable to negative amortization instruments only
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Current Payment is less than Life Pay Floor	Current payment is less than the minimum payment amount. Applicable to negative amortization instruments only
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Deferred Current Balance > Deferred Original Balance	Instrument has originated in past but Deferred Current Balance and Deferred Original Balance are equal
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Holiday calendar not given for B/252 accrual basis	Holiday calendar must be given when using Business/252 accrual basis
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Interest Payment Freq > Original Term	Interest Payment frequency cannot be greater than original term
CFEEDITS	06/30/2022	1656602075940_2022-06-30_1656602095009_1	516_TC033_PPRCONV_ADJ_A365_ADV_SC4_DMMB2_N716	FS_D_ASSET	Interest Payment Frequency <= 0	Interest Payment frequency is less than or equal to zero, and both maturity date and origination date are valid dates and can be used to

# 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:

**Figure 8-1 Canvas Prompt Filters for Time Dimension**



- 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.

**Figure 8-2 As of Date Selection**

- 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   
  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**

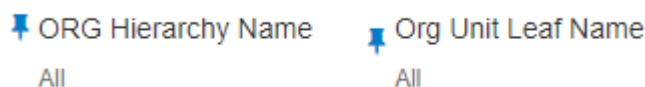
- **Cash Flow Date:** You can use this filter to select a specific Cashflow Date to be applied to the Cashflow Output Process execution data
- **Cashflow Process Name:** You can use this filter to select a specific Cashflow Process Name to be applied to the Cashflow Output Process execution data
- **Execution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



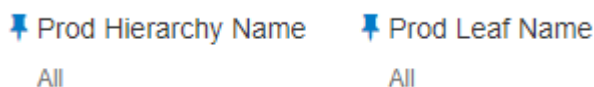
- **LE Hierarchy Name:** N.B. this is a mandatory filter for the group filtering on Legal Entity key processing dimension. As the Application supports the creation of multiple hierarchies for the same Dimension of analysis, and to avoid displaying results from multiple Dimension Hierarchies at the same 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:** 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**



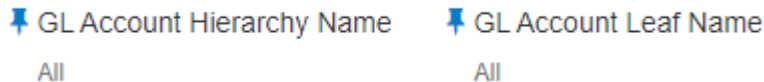
- **Prod Hierarchy Name:** N.B. this is a mandatory filter for the group filtering on Product key processing dimension.



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.

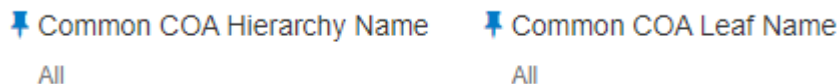
**Figure 8-8 Canvas Prompt Filters for GL Account key processing dimension**



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      Common COA Leaf Name  
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.

**Figure 8-10** Cashflow Output key processing dimension hierarchies

<b>Select Org Unit Hierarchy</b>	Org Unit Name Level 1 Org Unit Name Level 2 Org Unit Name Level 3 Org Unit Leaf Name	<b>Select Product Hierarchy</b>	Product Name Level 1 Product Name Level 2 Product Name Level 3 Product Leaf Name
<b>Select GL Account Hierarchy</b>	GL Account Name Level 1 GL Account Name Level 2 GL Account Name Level 3 GL Account Leaf Name	<b>Select COA Hierarchy</b>	Common COA Level 1 Name Common COA Level 2 Name Common COA Level 3 Name Common COA Leaf Name

### 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

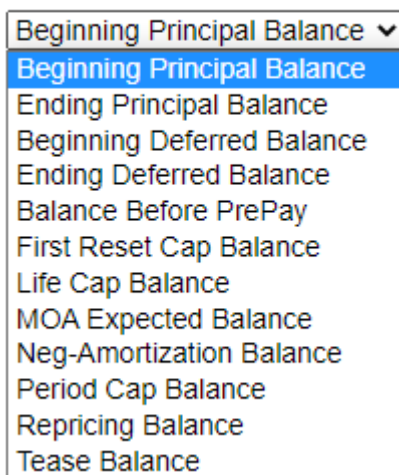
Total Principal Runoff

Writeoff Amount

- 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**

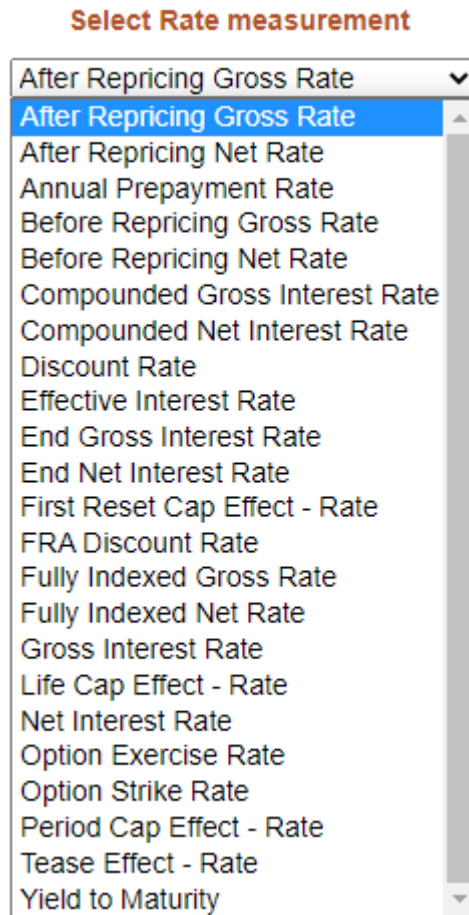


The image shows a dropdown menu with the following items:

- Beginning Principal Balance (selected)
- 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".

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.

Figure 8-14 Data Action configuration

### Data Actions

Actions +

▾ Navigate to Process Results Details

Name

Type  ▾

Anchor To  +

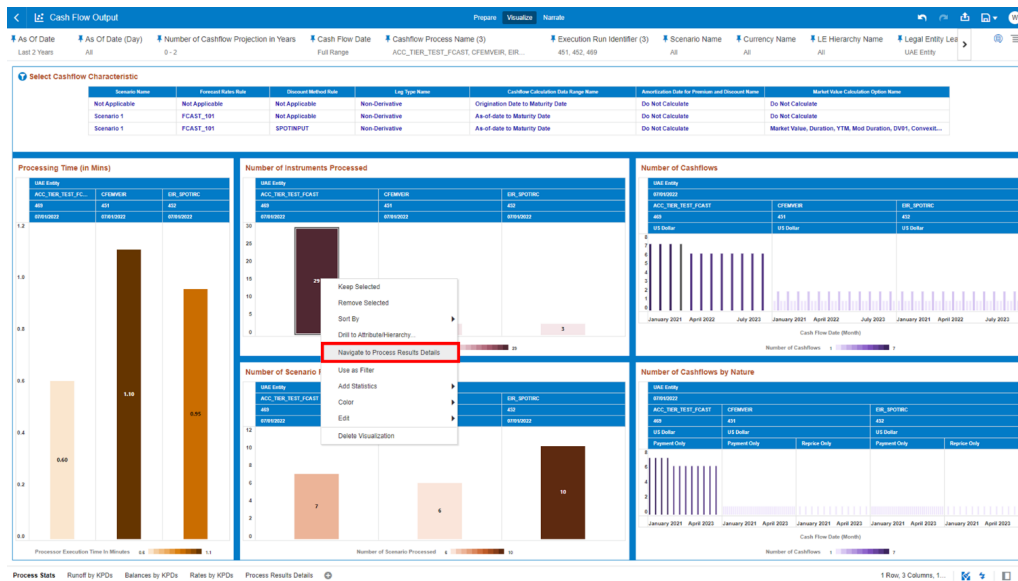
Target

Canvas Link  ▾

Pass Values  ▾

Supports Multiple Selection  On

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 Characteristic**The 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.

The columns displayed in the chart are the following:

- Legal Entity Leaf Name
- Cashflow Process Name

- Execution Run Identifier
- As Of Date (Day)
- Processor Execution Time In Minutes
- **Number of Instruments Processed**The chart reports the trend analysis of the Number of Instruments 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 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”).

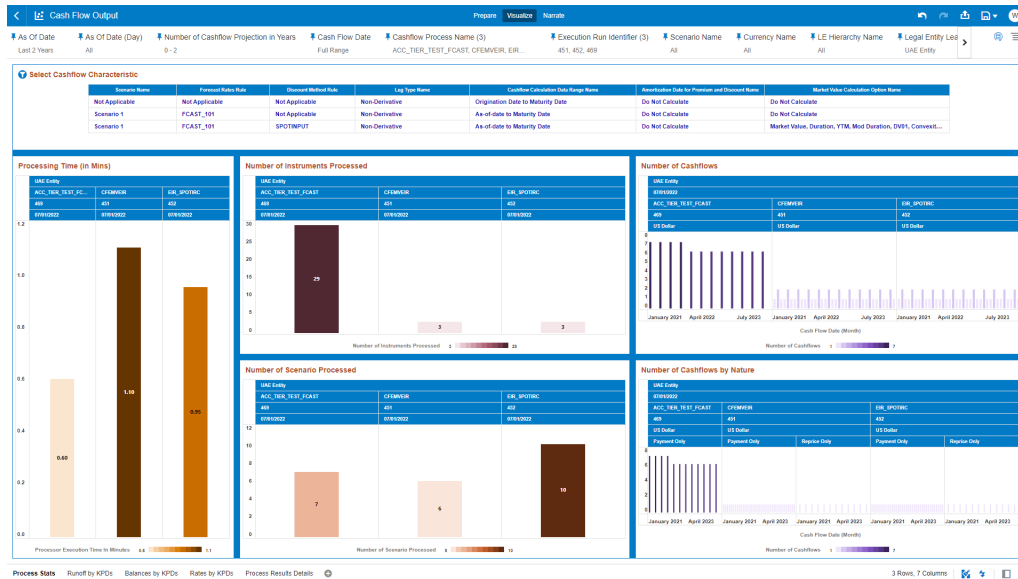
The columns displayed in the chart are the following:

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



- Cashflow Process Name
- Execution Run Identifier
- Currency Name
- 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<sup>1</sup> logic:

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

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)
- Runoff Measure

- **Selected Runoff Measure by Product**The 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).

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
- GL Account Hierarchy
- Cash Flow Date (Month)
- Runoff Measure

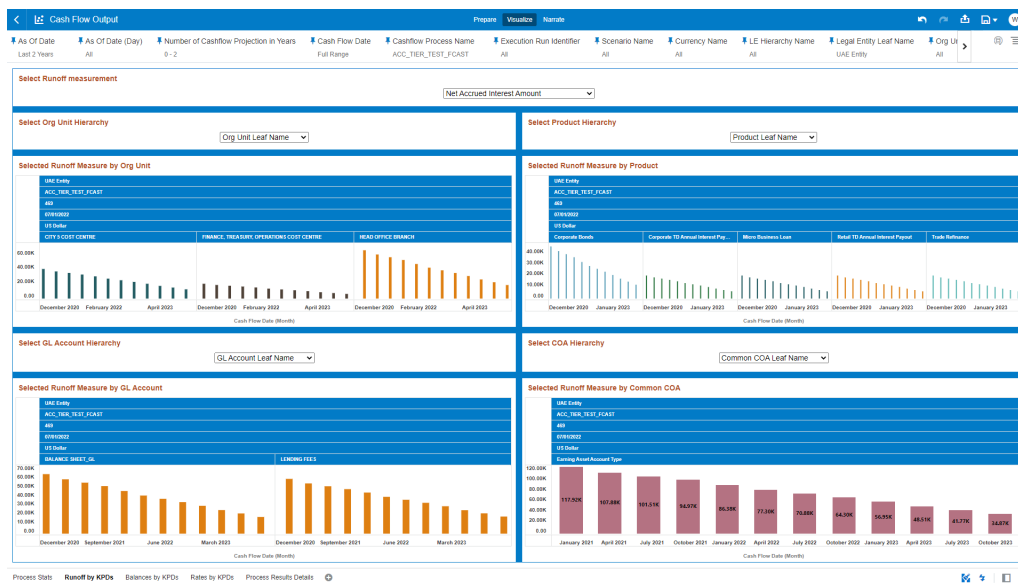
- **Selected Runoff Measure by Common COA**

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 measurement**The chart provides you with a selection capability on the desired Cashflow Balance measurement.

- **Select Org Unit Hierarchy**The chart provides you with a selection capability for the desired Org Unit Hierarchical level.
- **Select Product Hierarchy**The chart provides you with a selection capability for the desired Product Hierarchical level.
- **Select GL Account Hierarchy**The 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 Unit**The 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).

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)
  - Balance Measure
- **Selected Balance Measure by Product**The 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).

The columns displayed in the chart are the following:

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

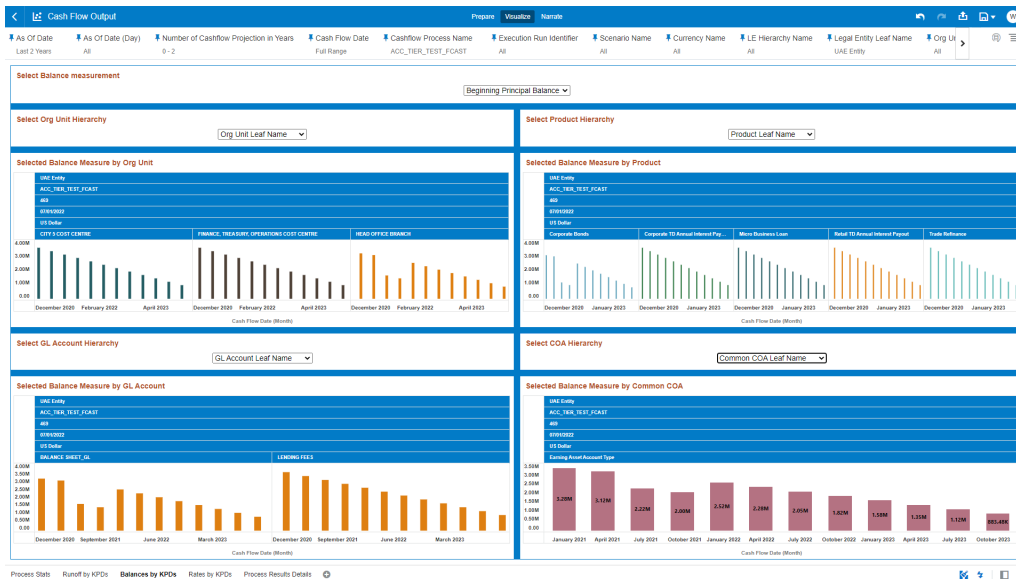
- As Of Date (Day)
- Currency Name
- GL Account Hierarchy
- Cash Flow Date (Month)
- Balance Measure
- **Selected Balance Measure by Common COA**

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 Hierarchy**The chart provides you with a selection capability for the desired Org Unit Hierarchical level.
- **Select Product Hierarchy**The chart provides you with a selection capability for the desired Product Hierarchical level.
- **Select GL Account Hierarchy**The 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 Unit**The 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 Product**The 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).

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
- GL Account Hierarchy
- Cash Flow Date (Month)
- Rate

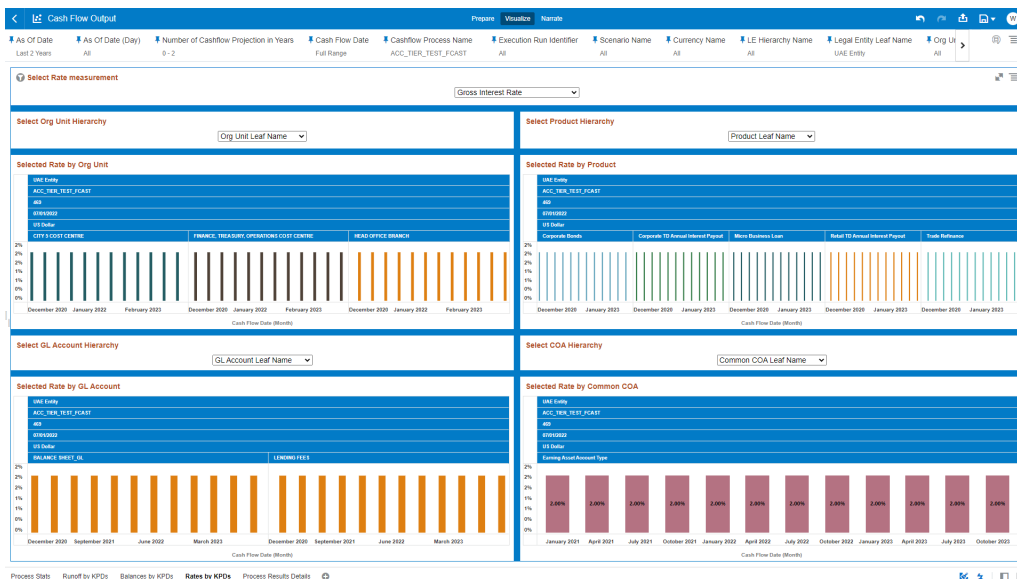
• **Selected Rate by Common COA**

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**



## 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".

Figure 8-20 "Process Results Details" Report

The screenshot displays the 'Process Results Details' report in Oracle Cash Flow Output. The report is filtered for 'All' data across various dimensions. The table contains 76 rows and 15 columns. The columns include: As of Date (Last 2 Years), Cash Flow Date (All), Number of Cashflow Projection in Years (0-2), Cash Flow Date (Full Range), Cashflow Process Name (ACC\_TIER\_TEST\_COST), Execution Run Identifier (All), Scenario Name (All), Currency Name (All), LE Hierarchy Name (All), Legal Entity Leaf Name (UAE Entity), and Org Unit (All). The main table lists process results with columns: 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, and Cashflow Calculation Date Range Name. The data shows multiple entries for different dates and processes, all originating from UAE Entity.

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

This screenshot is similar to Figure 8-20 but highlights the 'Account Number' column. A red box and arrow point to the 'Account Number' column header, and another red box highlights the dropdown menu for this column, which is currently open and showing a list of account numbers: AT1\_1, AT2\_1, AT3\_1, AT4\_1, AT5\_1, and AT6\_1. The rest of the table structure and data are identical to Figure 8-20.