

# **Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack**

**User Guide**

**Release 8.0.8.0.0**

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**ORACLE®**  
Financial Services

Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack User Guide, Release 8.0.8.0.0

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# 1 Preface

Welcome to Release 8.0.8.0.0 of the Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack User Guide.

This section provides a brief description of the scope, the audience, the references, concepts and the organization of the user guide and conventions incorporated into the user guide. The topics in this section are organized as follows:

- [Scope of the guide](#)
- [Intended Audience](#)
- [Documentation Accessibility](#)
- [Related Information Sources](#)
- [How This Guide is Organized](#)
- [Conventions Used](#)

## 1.1 Scope of the Guide

The objective of this user guide is to provide comprehensive working knowledge on Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack (OFS REG REP RBI), Release 8.0.8.0.0. This user guide is intended to help you understand the key features and functionalities of OFS REG REP RBI release 8.0.8.0.0 and details the process flow and methodologies used.

## 1.2 Intended Audience

This guide is intended for:

- Regulatory Reporting Analyst who maintain the dimensional values across multiple reporting requirements, maintain results area structure of Oracle Financial Services Data Foundation, and ensure data quality.
- Data Analysts who clean, validate, and import data into the Oracle Financial Services Download Specification format, and ensure that data is populated in the relevant tables as per the specifications and executions required for regulatory reporting.
- System Administrator (SA), instrumental in making the application secure and operational and configures the user roles providing necessary access to users.

## 1.3 Documentation Accessibility

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

## 1.4 Access to Oracle Support

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



## 1.5 Related Information Sources

In addition to this user guide, you can refer to the following documents in the [OHC](#) Documentation Library:

- Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack Installation Manual Release 8.0.8.0.0
- Oracle Financial Services Data Foundation User Guide Release 8.0.8.0.0
- Oracle Financial Services Data Foundation Installation Manual Release 8.0.8.0.0
- Oracle Financial Services Analytical Applications Infrastructure User Guide Release 8.0.8.0.0 (present in the [OHC](#) Documentation Library)

## 1.6 How this Guide is Organized

The OFS Regulatory Reporting for Reserve Bank of India with Lombard Risk Integration User Guide includes the following topics:

- [Chapter 1: Introduction](#)
- [Chapter 2: Getting Started](#)
- [Chapter 3: Regulatory Reporting Solution Data Flow](#)
- [Chapter 4: OFSAA Features](#)
- [Chapter 5: Report Submission](#)
- [Chapter 6: Maintenance](#)
- [Chapter 7: Troubleshooting Guidelines](#)

## 1.7 Conventions Used

Table 1 lists the conventions used in this guide.

**Table 1: Conventions Used in this Guide**

Convention	Meaning
<i>Italics</i>	Names of books, chapters, and sections as references
<b>Bold</b>	<ul style="list-style-type: none"> <li>• Object of an action (menu names, field names, options, button names) in a step-by-step procedure</li> <li>• Commands typed at a prompt</li> <li>• User input</li> </ul>
Monospace	<ul style="list-style-type: none"> <li>• Directories and subdirectories</li> <li>• File names and extensions</li> <li>• Process names</li> <li>• Code sample, including keywords and variables within a text</li> </ul>

## 2 Introduction

This chapter provides an understanding of the Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack (OFS REG REP RBI) application and its scope. It includes:

- [Overview](#)
- [OFSAA Regulatory Reporting Architecture](#)
- [Scope](#)

### 2.1 Overview

Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack (OFS REG REP RBI) helps the banks to comply with various guidelines issued by RBI, including BCBS 239 regulations. It provides integrating risk data reporting systems and enhances the accuracy of reporting in banks. OFS Risk Regulatory Reporting (REG REP) Solution helps in achieving the objectives by enabling preset steps based on the generalization of a set of solutions. This is made possible by:

- Providing centralized data storage for risk data through relevant subject areas of Financial Services Data Foundation (FSDF).
- Interfacing with a third-party reporting tool such as Lombard Risk Reporter Portal to build necessary template reports to meet the regulatory expectations.

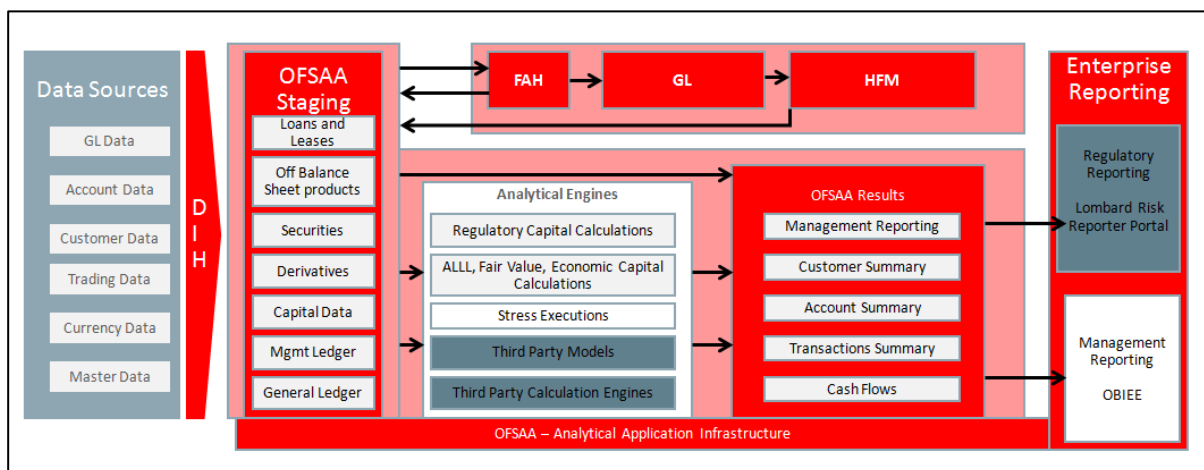
Data accuracy of risk reporting is ensured by:

- Data Governance Studio (DGS).

The OFS REG REP RBI solution enables financial services organizations to manage and execute regulatory reporting in a single integrated environment. It automates end-to-end processes from data capture through submission with industry-leading solutions. It leverages Oracle Financial Services Analytical Application (OFSAA) and Oracle Financial Services Data Foundation (OFSDF) for managing analytical application data. The AgileREPORTER in Regulatory Reporting (REG REP) Solution enables firms to automate the final mile of the reporting process. It provides pre-built integration to Lombard Risk Reporting, eliminating the need for further manual intervention. The solution ensures data integrity allowing banks to focus more time on analyzing and gaining new business insight from their growing stores of data instead of preparing data and reports with the sole objective of meeting submission deadlines.

## 2.2 OFSAA Regulatory Reporting Architecture

OFS REG REP RBI supports the regulatory requirements for various reporting requirements such as DSB3ROR, FORM X, BSR VII and so on, which require enterprise-level data spanning multiple areas of banking. Each of these business areas has different applications to answer their respective processing requirements. REG REP warehouses this data for reporting purposes at a single place. An intermediate data transfer layer specific to the source applications enables data loading to REG REP by using the provided download specifications.



**Figure 1: Regulatory Reporting (REG REP) Solution Architecture**

This interface connects the Oracle FSDF to Lombard Risk. As shown in the Architecture of Figure 1, Data flows from OFSAA to Lombard Risk.

OFSDf is an analytical data warehouse platform for the Financial Services industry. OFSDf combines an industry data model for Financial Services along with a set of management and infrastructure tools that allows Financial Services Institutions to develop, deploy, and operate analytical solutions spanning key functional areas in Financial Services, including:

1. Enterprise Risk Management
2. Enterprise Performance Management
3. Customer Insight
4. Financial Crime and Compliance Management OFSDf

It is a comprehensive data management platform that helps institutions to manage the analytical data life cycle from sourcing to reporting and business intelligence/BI using a unified, consistent platform and toolset.

AgileREPORTER is a form and workflow tool that enables both creation and submission of regulatory returns. AgileREPORTER addresses the financial reporting requirements of both domestic and international banks and financial institutions by automating compliance with mandated reports to central banks, regulatory agencies. AgileREPORTER works easily with multiple sources of information as it standardizes data elements and automates regulatory report production in prescribed templates with the associated workflow for automatic submission. It is a reliable and efficient infrastructure to compile, generate and submit regulatory reports. It collects data from a wide universe (not just OFSAA Results). It provides automated repeated manual adjustments, variance analysis, and validation checks. It provides features to explain and justify a number quickly, including links to OBIEE.

The solution provides a pre-built interface or integration between FSDF and AgileREPORTER. With this integration, end-user can automate end to end reporting processes covering data preparation to the last mile of reporting.

## 2.3 Scope

Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack covers the following regulatory reports for this 8.0.8.0.0 release as mentioned in the table.

The following reports (BSR2, Leverage Ratio, and RCAIII) underwent Bug Fixes, Regulatory Changes / Forward Port from the previous release.

Report Name	Report Code as per Lombard Portal	Report Description	Report Section Covered in 8.0.8.0.0
Basic Statistical Report	BSRII	Basic Statistical Report II	All Sections
Leverage Ratio	LEVRATIO	Leverage Ratio	SoloPosition_P1 (RBILEVRATIOP001R0190C0010, RBILEVRATIOP001R0780C0050, RBILEVRATIOP001R0130C0050, RBILEVRATIOP001R0030C0050, RBILEVRATIOP001R0010C0050, RBILEVRATIOP001R0080C0050)
Regulatory Capital Adequacy	RCAIII	Reports the Return on Capital Adequacy Basel III	CRNMROffBS39_P53

## 3 Getting Started

This chapter provides an understanding of the prerequisites, general and data preparation assumptions and logging into the application. It includes:

- [Prerequisites](#)
- [Assumptions](#)
- [Logging in to the OFSDF Interface with Lombard Risk for RBI](#)
- [Organization of the Interface for User Roles](#)
- [Metadata Browser](#)

OFS Regulatory Reporting for Reserve Bank of India with Lombard Risk Integration allows you to perform the following activities:

- Manage Data Loading and Transformation from various source systems to staging, processing, and results.
- Manage relevant OFSAA metadata for regulatory reporting purposes. This includes creating, modifying, and viewing the metadata used in reporting.
- View the report metadata for mapping.
- Drill down from AgileREPORTER to OFSAA results area.

### 3.1 Prerequisites

For detailed prerequisites and instructions on installing this Interim Release, see [Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack Installation Guide Release 8.0.8.0.0](#).

### 3.2 Assumptions

OFSDF interface with Lombard Risk for RBI is a reporting application and it does not perform any risk/stress calculations. The following are the assumptions for the application:

- Data required for risk and compliance regulatory report templates are available in FSDf as per data requirements.
- Lombard Risk Reporter Portal supports other non-risk and non-compliance related regulatory templates and Oracle Financial Services Analytical Application (OFSAA) may not supply all the necessary data for such reports.
- Textual and other related portions of reports like personal details, contact details, Yes / No choices must be updated on Report Portal directly and FSDf does not have a placeholder for it.
- Data provided is post reconciliation to ensure that accuracy of data being reported (non-prescribed by regulators) are performed in OFSAA using various components – General Ledger (GL) reconciliation, data quality checks, and variance reporting.
- Validity checks such as edit checks, cross-validation checks and so on prescribed by the regulator are performed within the AgileREPORTER.

- All monetary amounts are expected to be positive in number, except valuation outputs which can be positive or negative. Rules are constructed assuming the negative sign of valuation amounts wherever applicable.
- The application populates a few specific dimension tables, known as seeded / sample tables as part of the installation script. Since they are used in the metadata, changes in data values have an impact on overall functioning.
- All percentage data are expected in decimal format meaning 9% must be provided as 9 and not 0.09.
- For data provided as of date, such as the last day of the quarter of the reporting year: Quarterly and Year to Date (YTD) report for the given date display the same value for those measures which are of as of the date in nature. For example: the Annual and Quarterly Balance Sheet and BASEL report generated as of 31-MAR show the same values for all measures such as Account Balance.
- Account Balances such as End of Period Balances are expected to be provided as Net of (without) Unearned Income.
- RCA III - Mkt Risk Specific-CDS: As per the reporting requirement, we must use `Fct_reg_market_risk_exposures.f_cds_undrly_party_cre_nbfc` flag to identify CDS counterparty type. DM change for the same is handled in subsequent model. To support template for 8.0.5.1.0 releases, use the unused column, `Fct_reg_market_risk_exposures.V_eff_credit_score_source`. This column is populated from Basel tables, that is, `Fct_market_risk_exposures.f_cds_undrly_party_cre_nbfc`.
- RCA III - CR On BS excl. Sec: Reporting in this schedule is as per Asset Class (for example: Domestic PSE, Foreign Bank, and so on) for Pre CRM amount and CRM Amount. There is no separate reporting for Non-Sec Covered Amount / RWA (Covered by mitigant) anywhere in the template. So we are assuming the following:
  - If the mitigant is Guarantor or Credit Derivative, then the amount covered by that mitigant will be reported as per Effective Asset Class in its respective line in the template. So each reporting line will have two parts added to it for the Amount of Exposure column. The first part will report Exposure based on Original Asset Class to report Uncovered RWA, The second part will report Exposure based on Mitigant's Effective Asset Class to report Covered RWA column.
- RCA III - Securitization Related Schedules: Regarding RW reporting of Unrated Eligible Liquidity Facilities in Line 1.2 and 1.2 of all 4 schedules related to securitization exposures, RW is taken as maximum RW assigned to any of the Unrated Eligible Liquidity Facilities. RCA III template issued by RBI has only one cell for the reporting of RW of such unrated facilities. If a reporting bank has more than one such facility, the maximum RW assigned to any one of these facilities is reported. This is taken as the interpretation of the template.
- RCA III - Securitization Related Schedules: Line Items 1.1. III, 1.1. IV, 2.1. III, and 2.1. IV are not mapped for all 4 schedules related to securitization exposures. The reason behind not mapping these is that they are already covered in 1.2 and 2.2.
- RCA III - Capital Structure Schedules: Some line Items are not mapped in Capital Schedules. The following table explains the reason for not mapping these line items.

Line Item	Comments
Shortfall in regulatory capital instruments in the unconsolidated entities - Amounts subject to Pre-Basel III Treatment.	For this line, there is no amount subject to Pre-Basel III Treatment.

Line Item	Comments
Regulatory adjustments applied to Common Equity Tier 1 in respect of amounts subject to Pre-Basel III treatment (please specify the details in the remarks column).	All items falling under this category are already captured in previous reporting lines of the template, hence null mapping for this line.
Shortfall in the Additional Tier 1 capital of majority-owned financial entities that are not consolidated with the bank.	As per our interpretation of RBI Basel Guidelines, the deduction must be from CET1 alone, and not from respective Tier (CET1, AT1, and T2).
Regulatory adjustments applied to Additional Tier 1 in respect of amounts subject to Pre-Basel III treatment (please specify the details in the remarks column).	All items falling under this category are already captured in previous reporting lines of the template, hence null mapping for this line.
Regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions - Amounts subject to Pre-Basel III Treatment.	For this line, there is no amount subject to Pre-Basel III Treatment.
Shortfall in the Tier 2 capital of majority-owned financial entities that are not consolidated with the bank.	As per our interpretation of RBI Basel Guidelines, the deduction must be from CET1 alone, and not from respective Tier (CET1, AT1, and T2).
Regulatory adjustments applied to Tier 2 capital in respect of amounts subject to Pre-Basel III treatment (please specify the details in the remarks column).	All items falling under this category are already captured in previous reporting lines of the template, hence null mapping for this line.

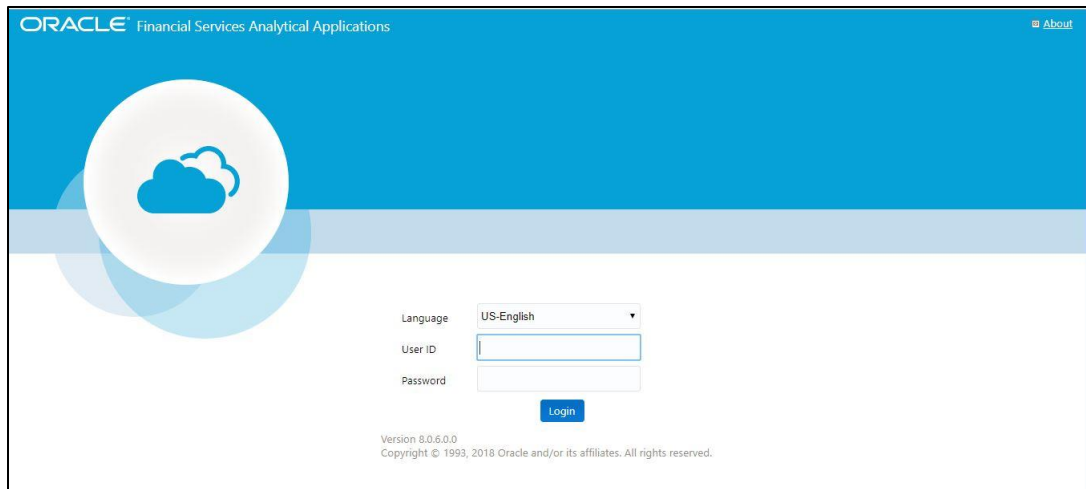
- CRILC Section 1 - Line 'In case SMA-0 under SMA, the reason thereof': is not mapped as this is expected to be a user input field, where you can directly update the SMA reason.
- ALE - Section 2 Part F1 and F2 - Line 'b) Credit event payments (cash-settled)': is interpreted to be derived from subsequent two lines – 'paid' and 'received'.

### 3.3 Logging in to the OFSDF Interface with Lombard Risk for RBI

After the application is installed and configured, to access the OFSDF Interface with Lombard Risk for RBI application you need to log into the OFSAAI environment using the OFSAAI login page.

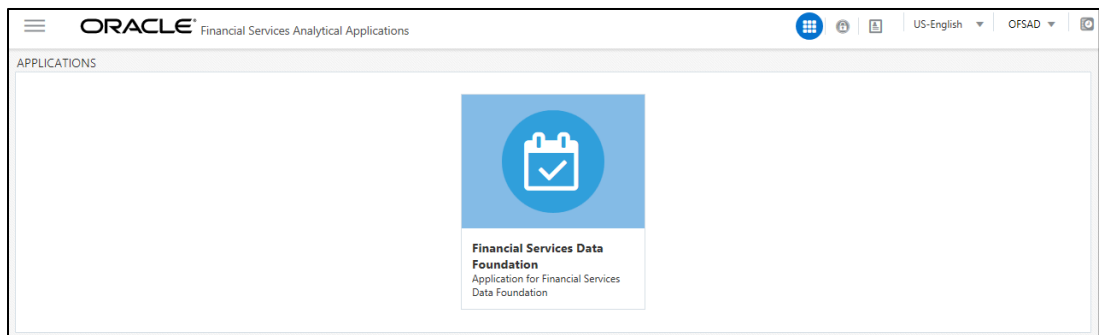
To access application follow these steps:

1. Enter the OFSAAI URL in your browser. The OFSAAI login page is displayed.



**Figure 2: OFSAAI Log In**

2. Select the desired language from the **Language** drop-down list.
3. Enter your **User ID** and **Password**. When you log into OFSAAI, the first screen is displayed. Select **Financial Services Data Foundation**.



**Figure 3: Landing Page**



## 3.4 Organization of Interface for User Roles

This section explains the various features used by an analyst. It describes the organization of the user interface and provides step-by-step instructions for navigating through the application to carry out these activities.

Data Analysts are expected to perform the following activities:

1. Marking Run as Final
2. Executing Batch to Refresh Derived Entities
3. Drill Down from AgileREPORTER to OFSDF

Reporting Analyst is expected to perform the following activities:

1. Drill Down from AgileREPORTER to OFSDF
2. Using Metadata Browser to check Schedule Wise metadata
3. Using Metadata Browser to check metadata usage across schedules

### 3.4.1 Marking Run as Final

Various applications provide data for regulatory reporting. You must mark specific executions for regulatory reporting as the final run.

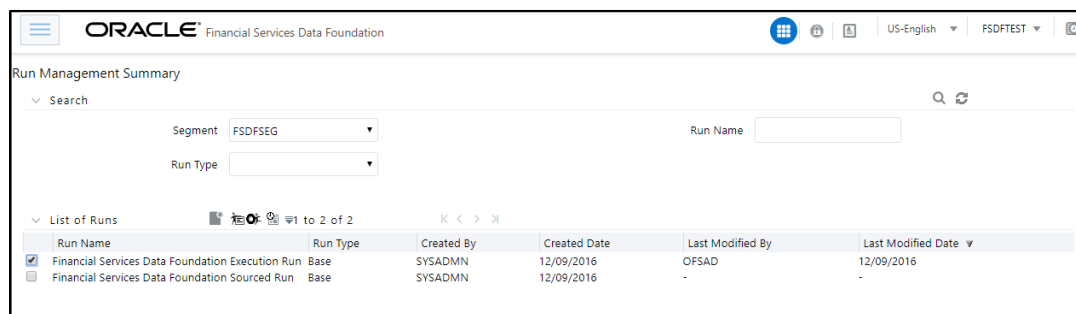


Figure 4: Run Management Summary Screen

### 3.4.2 Executing Batch to Resave Derived Entities

To execute the batch to resave derived entities, follow the below steps:

1. Navigate to **Financial Services Data Foundation** → **Operations** → **Batch Execution**
2. Select the batch <<INFODOM>>\_RBI\_<<REPORT NAME>>\_RESAVEDE to resave all the DEs used in that <<REPORT NAME>>.

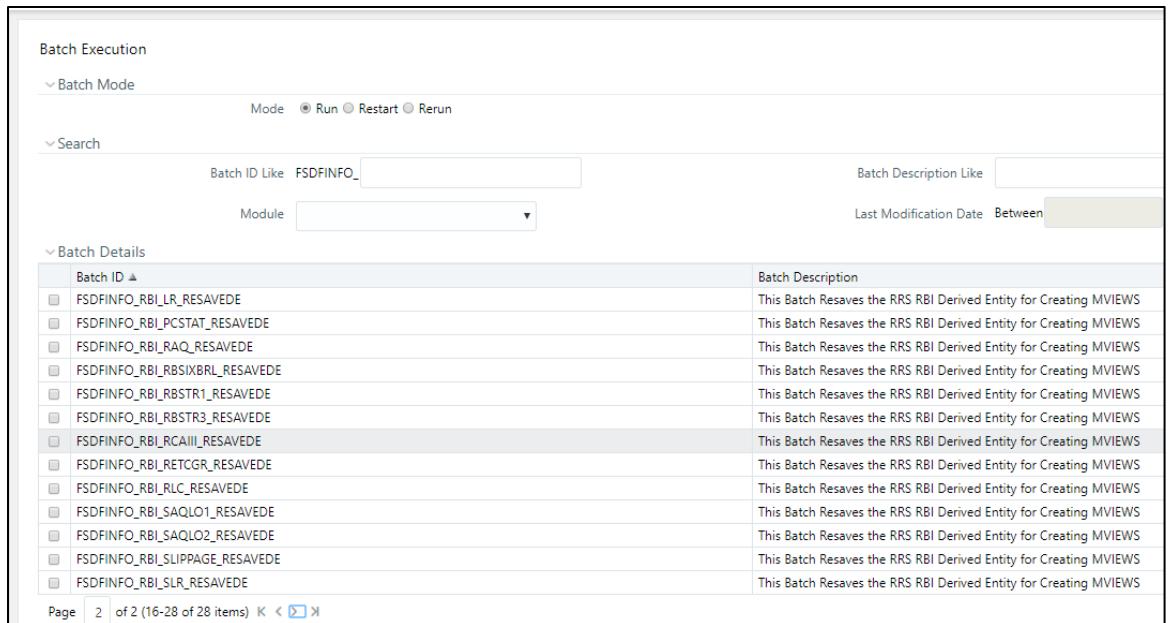


Figure 5: Batch Execution Screen

3. Monitor the status of the batch using the **Batch Monitor** link.

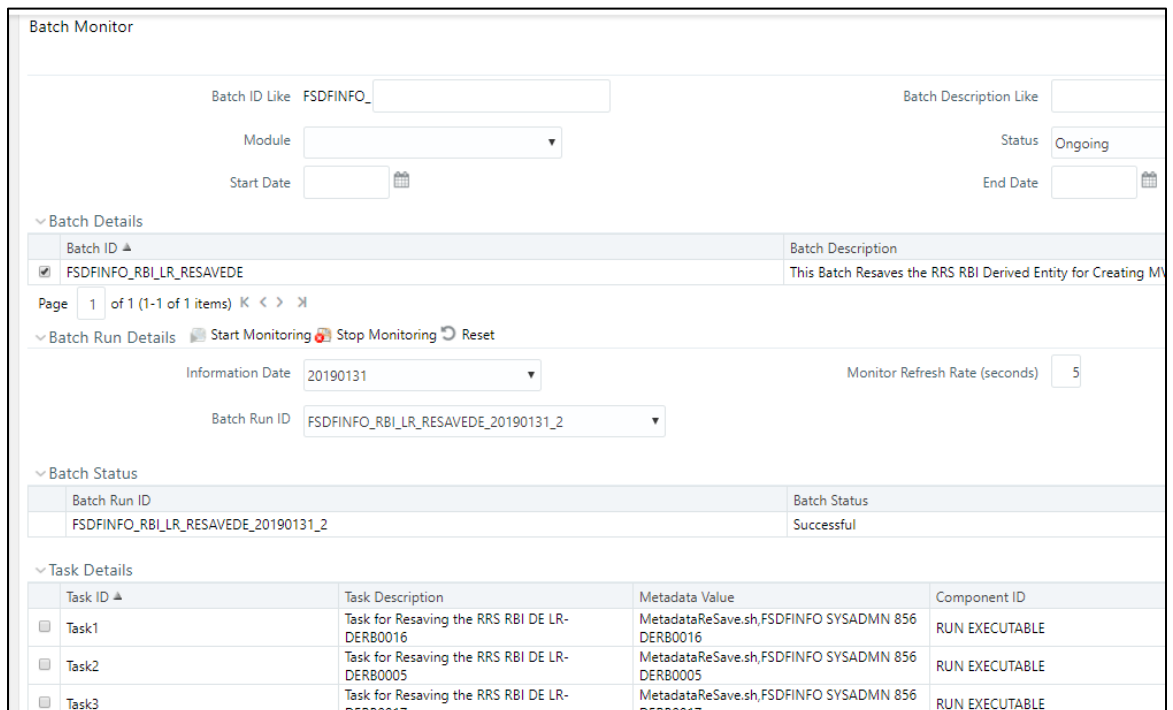


Figure 6: Batch Monitor Screen

## 4. The batches available for this release are:

RESAVE Batch	Description
<<INFODOM>>_RBI_ADJUSTMENT_RESAVEDE	This batch resaves the RRS RBI ADJUSTMENT Derived Entities
<<INFODOM>>_RBI_BSRII_RESAVEDE	This batch resaves the RRS RBI BSRII Derived Entities
<<INFODOM>>_RBI_BSRVII_RESAVEDE	This batch resaves the RRS RBI BSRVII Derived Entities
<<INFODOM>>_RBI_CICDP_RESAVEDE	This batch resaves the RRS RBI CICDP Derived Entities
<<INFODOM>>_RBI_CRILC_RESAVEDE	This batch resaves the RRS RBI CRILC Derived Entities
<<INFODOM>>_RBI_CUSTAT_RESAVEDE	This batch resaves the RRS RBI CUSTAT Derived Entities
<<INFODOM>>_RBI_DSB3ROR_RESAVEDE	This batch resaves the RRS RBI DSB3ROR Derived Entities
<<INFODOM>>_RBI_DSBIALL_RESAVEDE	This batch resaves the RRS RBI DSBIALL Derived Entities
<<INFODOM>>_RBI_EXPI_RESAVEDE	This batch resaves the RRS RBI EXPI Derived Entities
<<INFODOM>>_RBI_FORMAS42_RESAVEDE	This batch resaves the RRS RBI FORMAS42 Derived Entities
<<INFODOM>>_RBI_FORMVIII_RESAVEDE	This batch resaves the RRS RBI FORMVIII Derived Entities
<<INFODOM>>_RBI_FORMX_RESAVEDE	This batch resaves the RRS RBI FORMX Derived Entities
<<INFODOM>>_RBI_GTCAII_RESAVEDE	This batch resaves the RRS RBI GTCAII Derived Entities
<<INFODOM>>_RBI_IRS_RESAVEDE	This batch resaves the RRS RBI IRS Derived Entities
<<INFODOM>>_RBI_LCRBLR_RESAVEDE	This batch resaves the RRS RBI LCRBLR Derived Entities
<<INFODOM>>_RBI_LEVRATIO_RESAVEDE	This batch resaves the RRS RBI Leverage Ratio Derived Entities
<<INFODOM>>_RBI_LR_RESAVEDE	This batch resaves the RRS RBI LR Derived Entities
<<INFODOM>>_RBI_PCSTAT_RESAVEDE	This batch resaves the RRS RBI PCSTAT Derived Entities
<<INFODOM>>_RBI_RAQ_RESAVEDE	This batch resaves the RRS RBI RAQ Derived Entities
<<INFODOM>>_RBI_RBSIXBRL_RESAVEDE	This batch resaves the RRS RBI RBSIXBRL Derived Entities
<<INFODOM>>_RBI_RBSTR1_RESAVEDE	This batch resaves the RRS RBI RBSTR1 Derived Entities

RESAVE Batch	Description
<<INFODOM>>_RBI_RBSTR3_RESAVEDE	This batch resaves the RRS RBI RBSTR3 Derived Entities
<<INFODOM>>_RBI_RCAIII_RESAVEDE	This batch resaves the RRS RBI RCAIII Derived Entities
<<INFODOM>>_RBI_RETCGR_RESAVEDE	This batch resaves the RRS RBI RETCGR Derived Entities
<<INFODOM>>_RBI_RLC_RESAVEDE	This batch resaves the RRS RBI RLC Derived Entities
<<INFODOM>>_RBI_SAQLO1_RESAVEDE	This batch resaves the RRS RBI SAQLO1 Derived Entities
<<INFODOM>>_RBI_SAQLO2_RESAVEDE	This batch resaves the RRS RBI SAQLO2 Derived Entities
<<INFODOM>>_RBI_SLIPPAGE_RESAVEDE	This batch resaves the RRS RBI SLIPPAGE Derived Entities
<<INFODOM>>_RBI_SLR_RESAVEDE	This batch resaves the RRS RBI SLR Derived Entities

### 3.4.3 Executing Batch to Refresh Derived Entities

To execute the batch to refresh derived entities, follow the below steps:

1. Navigate to Financial Services **Data Foundation** → **Operations** → **Batch Execution**
2. Select the batch <<INFODOM>>\_RBI\_<<REPORT NAME>>\_REFRESH to refresh all the DEs used in that <<REPORT NAME>>.

REFRESH Batch	Description
<<INFODOM>>_RBI_ADJUSTMENT_REFRESH	This batch refreshes the RRS RBI ADJUSTMENT Derived Entities
<<INFODOM>>_RBI_BSRII_REFRESH	This batch refreshes the RRS RBI BSRII Derived Entities
<<INFODOM>>_RBI_BSRVII_REFRESH	This batch refreshes the RRS RBI BSRVII Derived Entities
<<INFODOM>>_RBI_CICDP_REFRESH	This batch refreshes the RRS RBI CICDP Derived Entities
<<INFODOM>>_RBI_CRILC_REFRESH	This batch refreshes the RRS RBI CRILC Derived Entities
<<INFODOM>>_RBI_CUSTAT_REFRESH	This batch refreshes the RRS RBI CUSTAT Derived Entities
<<INFODOM>>_RBI_DSB3ROR_REFRESH	This batch refreshes the RRS RBI DSB3ROR Derived Entities
<<INFODOM>>_RBI_DSBIARE_REFRESH	This batch refreshes the RRS RBI DSBIARE Derived Entities
<<INFODOM>>_RBI_EXPI_REFRESH	This batch refreshes the RRS RBI EXPI Derived Entities

REFRESH Batch	Description
<<INFODOM>>_RBI_FORMAS42_REFRESH	This batch refreshes the RRS RBI FORMAS42 Derived Entities
<<INFODOM>>_RBI_FORMVIII_REFRESH	This batch refreshes the RRS RBI FORMVIII Derived Entities
<<INFODOM>>_RBI_FORMX_REFRESH	This batch refreshes the RRS RBI FORMX Derived Entities
<<INFODOM>>_RBI_GTCAII_REFRESH	This batch refreshes the RRS RBI GTCAII Derived Entities
<<INFODOM>>_RBI_IRS_REFRESH	This batch refreshes the RRS RBI IRS Derived Entities
<<INFODOM>>_RBI_LCRBLR_REFRESH	This batch refreshes the RRS RBI LCRBLR Derived Entities
<<INFODOM>>_RBI_LEVRATIO_REFRESH	This batch refreshes the RRS RBI Leverage Ratio Derived Entities
<<INFODOM>>_RBI_LR_REFRESH	This batch refreshes the RRS RBI LR Derived Entities
<<INFODOM>>_RBI_PCSTAT_REFRESH	This batch refreshes the RRS RBI PCSTAT Derived Entities
<<INFODOM>>_RBI_RAQ_REFRESH	This batch refreshes the RRS RBI RAQ Derived Entities
<<INFODOM>>_RBI_RBSIXBRL_REFRESH	This batch refreshes the RRS RBI RBSIXBRL Derived Entities
<<INFODOM>>_RBI_RBSTR1_REFRESH	This batch refreshes the RRS RBI RBSTR1 Derived Entities
<<INFODOM>>_RBI_RBSTR3_REFRESH	This batch refreshes the RRS RBI RBSTR3 Derived Entities
<<INFODOM>>_RBI_RCAIII_REFRESH	This batch refreshes the RRS RBI RCAIII Derived Entities
<<INFODOM>>_RBI_RETCGR_REFRESH	This batch refreshes the RRS RBI RETCGR Derived Entities
<<INFODOM>>_RBI_RLC_REFRESH	This batch refreshes the RRS RBI RLC Derived Entities
<<INFODOM>>_RBI_SAQLO1_REFRESH	This batch refreshes the RRS RBI SAQLO1 Derived Entities
<<INFODOM>>_RBI_SAQLO2_REFRESH	This batch refreshes the RRS RBI SAQLO2 Derived Entities
<<INFODOM>>_RBI_SLIPPAGE_REFRESH	This batch refreshes the RRS RBI SLIPPAGE Derived Entities
<<INFODOM>>_RBI_SLR_REFRESH	This batch refreshes the RRS RBI SLR Derived Entities

### 3.4.4 Report Verification - Drill Down from AgileREPORTER to OFSAA Results Area

Drill down functionality enables the user to view the accounts included in the aggregation. Following these steps to drill down from AgileREPORTER to OFSAA:

1. Log in to the AgileREPORTER.

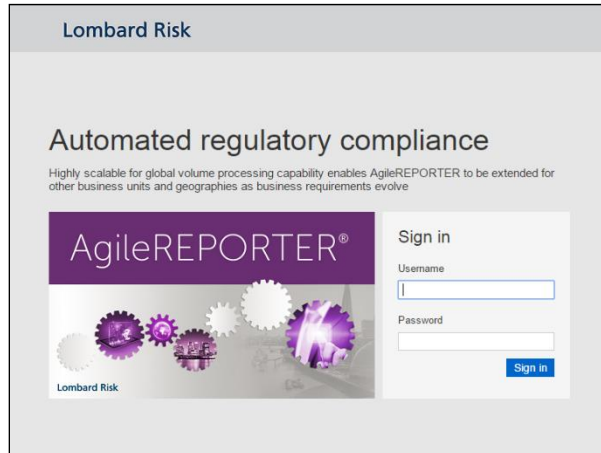


Figure 7: AgileREPORTER Login Page

2. The user can view the list of reports on the main page. Click any report name in the Returns column, for example, **FORMVIII**.

Lombard Risk Dashboard												
<span>Create New</span> <span>Import adjustments</span> <span>Export to Regulator Format</span> <span>Export</span> <span>Retrieve Return</span>												
Regulator:	RETURNS	VERSION	REFERENCE DATE	STATUS			GLOBAL VALIDATION	APPROVAL	EDITIONS	MODIFIED	MODIFIED BY	PERIOD
Reserve Bank of India				LOCK	VALIDATION	X-VALIDATION						
Entity	ESRI	2	03/03/2014	?	?	?	UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	20/09/2016 13:11:43	SYS	Daily
IN	BSRVII	2	03/03/2014	?	?	?	UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	20/09/2016 07:42:29	SYS	Daily
Form	ESB3ROR	2	03/03/2014	?	?	?	UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	16/09/2016 20:05:14	SYS	Daily
All	DSBALE	3	03/03/2014	?	?	?	UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	19/09/2016 16:30:29	SYS	Daily
Available date	FORMVII	3	03/03/2014	?	?	?	UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	20/09/2016 16:58:22	SYS	Daily
All	RS	2	03/03/2014	?	?	?	UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	20/09/2016 17:11:35	SYS	Daily
	LCRBLR	3	03/03/2014	?	?	?	UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	16/09/2016 21:08:56	SYS	Daily
	BAG	2	03/03/2014	?	?	?	UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	20/09/2016 16:39:42	SYS	Daily
	BBSXBR	2	03/03/2014	?	?	?	UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	20/09/2016 16:53:16	SYS	Daily
	BCAB	1	03/03/2014	?	?	?	UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	20/09/2016 16:48:16	SYS	Daily
	SLB	2	03/03/2014	?	?	?	UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	19/09/2016 04:24:55	SYS	Daily

Figure 8: AgileREPORTER Main Page

- The schedule list is displayed on the left-hand side. Click any schedule name, for example, **Annexl\_P2**.

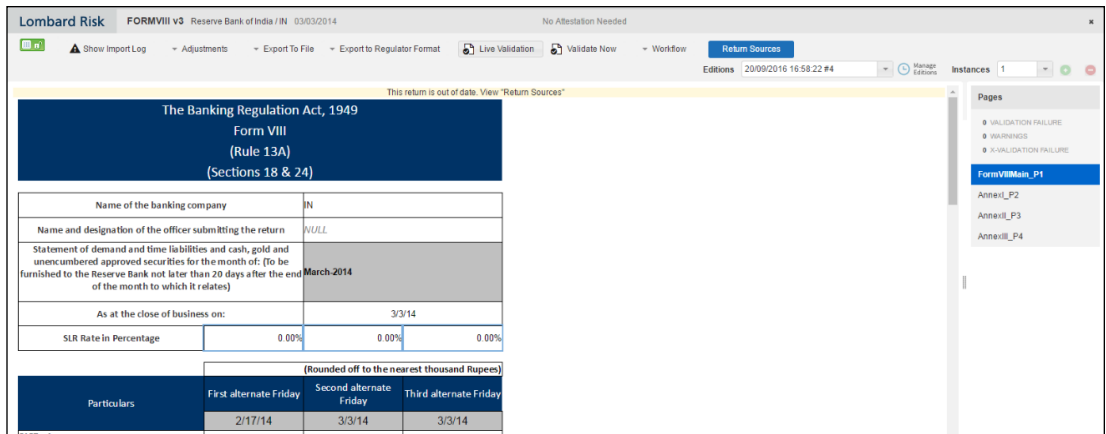


Figure 9: AgileREPORTER Page Displaying List of Schedules

- Click any cell to drill down.

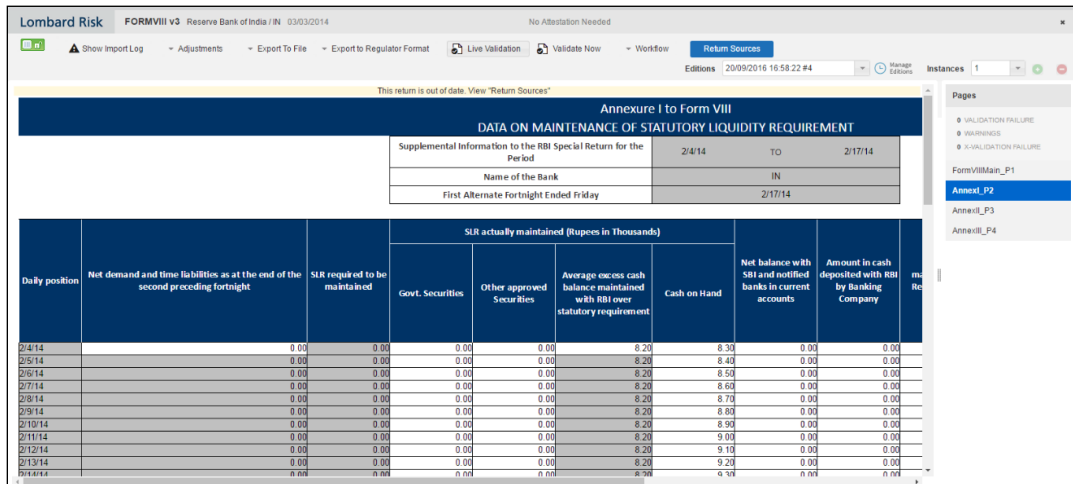


Figure 10: AgileREPORTER Schedule Details Page

- Figure 11 displays drill down for the first cell in Column F. The OFSAA icon is displayed. Click the OFSAA icon to view how this cell was populated from OFSAA results. You are redirected to the OFSAA drill-down page.

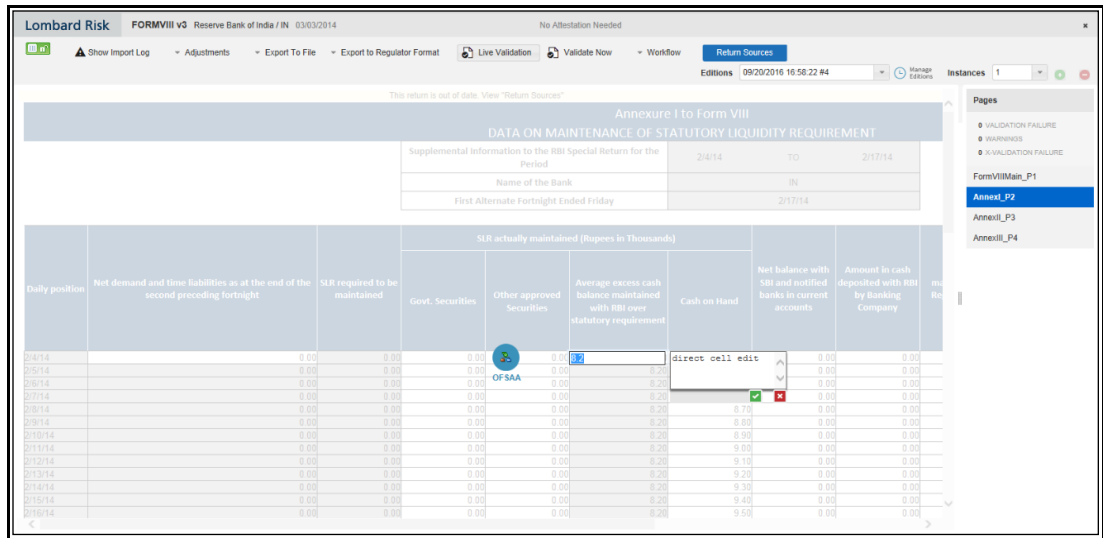


Figure 11: AgileREPORTER Drill Down

- This cell is populated from the derived entity mentioned in the grid header DE – FMR Fortnightly SLR Maintenance Agg. The value in the derived entity grid 8200.00 must match with that of the cell in the report. The derived entity is an aggregate built on top of the OFSAA results model to serve regulatory template requirements. It is built using dimensions, measures and business processors. The dimensions that participate in determining the cell value is displayed with data. Click the derived entity link in the grid header.

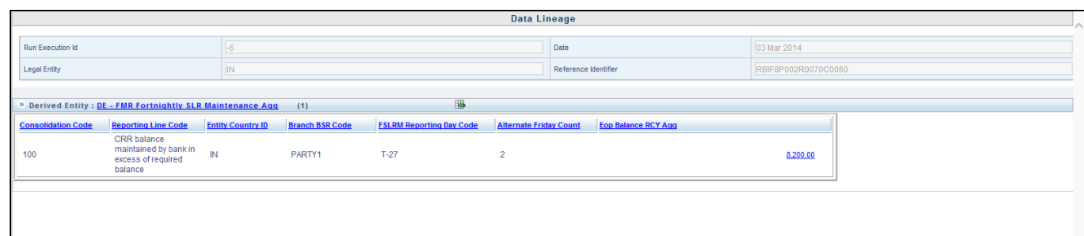


Figure 12: Data Trace Browser/ OFSAA Report Drill-down Screen



- Derived entity details are displayed in the Metadata Browser within the page. Scroll to view complete details such as Datasets, Hierarchies, Measures and so on. Click the measure value in the derived entity row, for example, **8,200.00**.

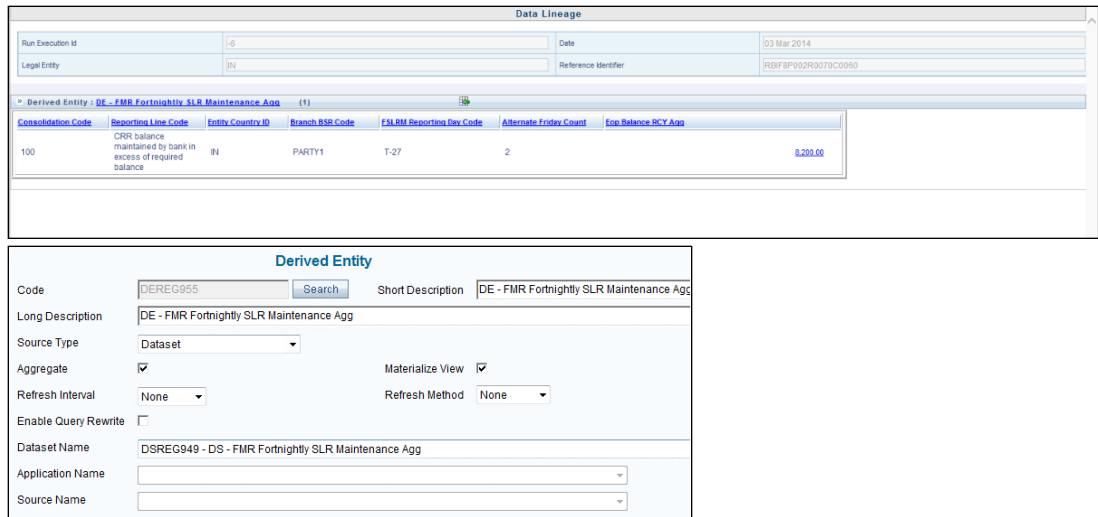


Figure 13: Derived Entity MDB View

- Double-click any figure in the screen to drill-down to the fact tables. The below grid displays the detailed granular rows of fact data that comprises the derived entity aggregate.

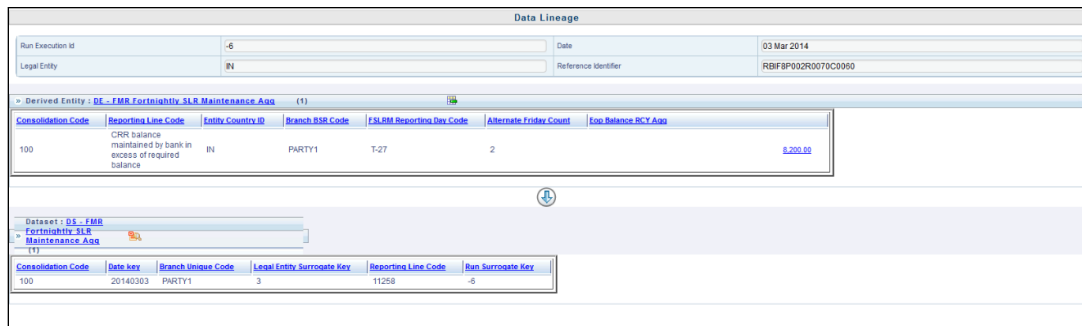


Figure 14: Drill-down Page

- Click the **Attribute Selector** icon on the header of the second grid.

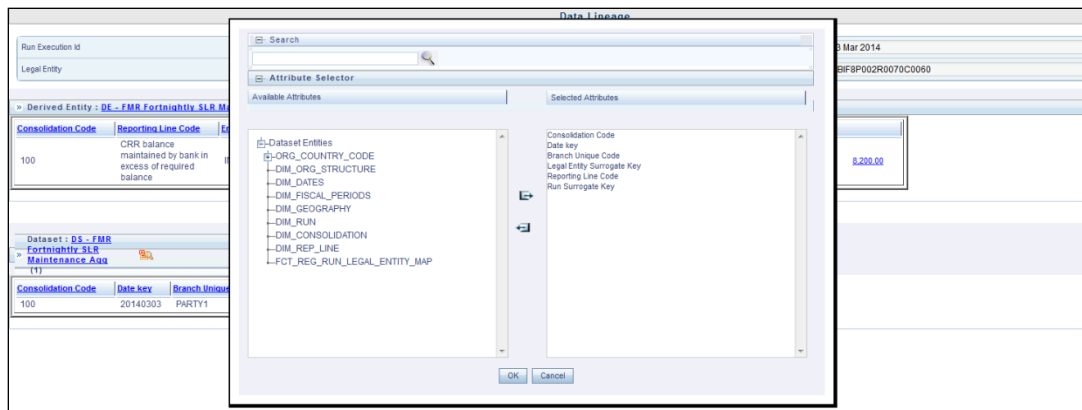


Figure 15: Drill-down Attribute Selector 1

10. Expand **Dataset Entities** and select **DIM\_ORG\_STRUCTURE**. Click OK.

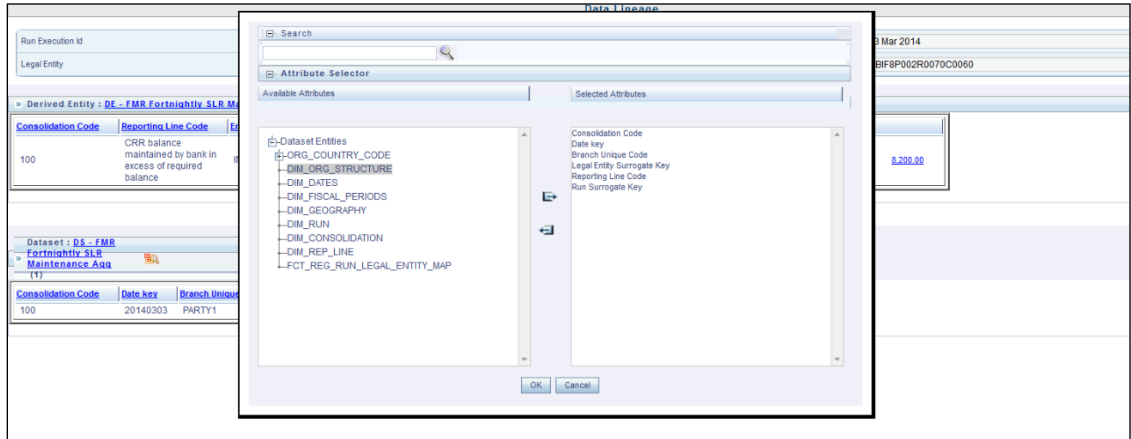


Figure 16: RBI Drill-down Attribute Selector 2

11. If the account number is required, scroll and expand the account dimension. Select the **account number/contract code** and click **OK**. Data source and account/contract code are displayed in the drill-down grid.

### 3.4.5 Retrieving the Returns from AgileREPORTER

The Retrieve Return functionality in AgileREPORTER fetches data from OFSAA derived entities and embeds them on AgileREPORTER templates. This runs the decision table process in Lombard Risk. You can view the relevant OFSAA data on various schedules of the AgileREPORTER using this functionality.

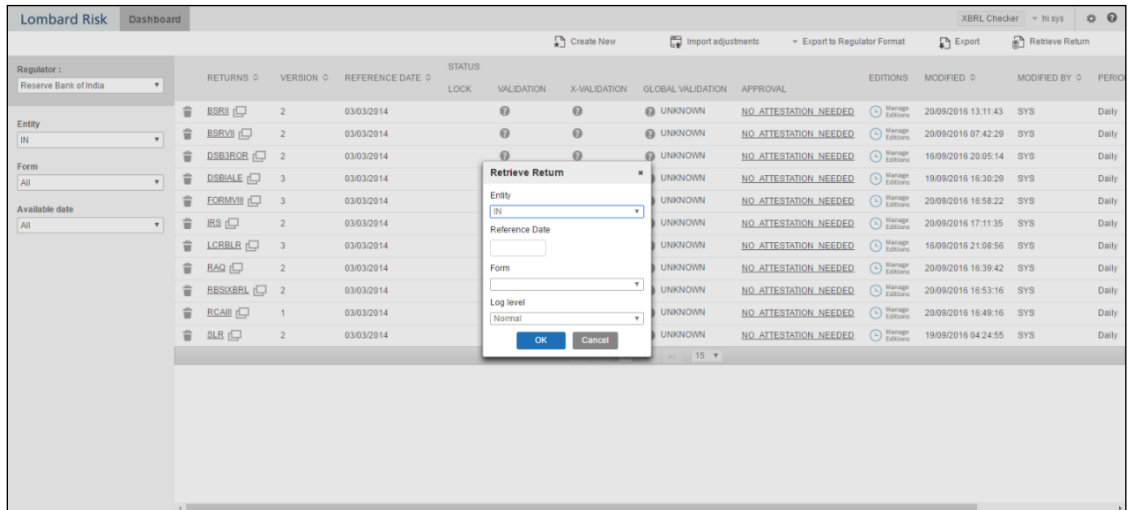


Figure 17: Retrieve Returns Page

## 3.5 Metadata Browser

This section helps you to navigate through the Metadata Browser and guides you in tracing the source of the metadata. The Metadata Browser function allows you to view and analyze all aspects of the metadata used in the OFSAAI. It provides extensive browsing capabilities of metadata, helps in tracking the impact of changes to metadata, and trace through to the source of originating data.

Metadata Browser (Object and Application View) provides a common repository of metadata objects created in OFSAAI and applications hosted in OFSAAI. Using this view, you can identify the usage of base objects in higher-level objects and the mapping of Objects to Application, thus enabling traceability. It also allows you to view the data flow and the workflow of the application and understand the usage of objects within the application.

The new visualization of Metadata Browser (MDB) supports the Application view and Object view. In the Application view, you can browse through the metadata created using the applications hosted in OFSAAI. In the Object view, you can view the metadata created in OFSAAI.

To access the Metadata Browser (Object and Application View), your role must be mapped to the SCR\_MDB function.

Analysts review the metadata used for a particular report schedule to verify the data. Data verification can require looking for metadata used in a given schedule or it can be scheduled in which particular metadata is used. Data Analysts and Reporting Analysts perform the report verification. Metadata refers to business measures, hierarchies, data sets, derived entities used for a given schedule.

To use MDB for schedule-wise metadata, and to use MDB for metadata wise schedule follow the below steps.

1. To use MDB for schedule-wise metadata for a given schedule, identify the metadata used.
  - a. You can verify the data for related data elements in results using this information. Navigate to path **Objects → OFSAA Metamodel → Reporting Metadata → Reports**. The Left Hand Side (LHS) displays the list of reports.
  - b. Click the object view. The Report Details page is displayed.

You can view the below information in the Details tab:

- **Reporting Elements:** This section displays the line items in the report with regulatory references.
  - **Depends On:** This section displays the metadata used in a given schedule.
- c. Click any Reporting Element.
 

You can view the following information on this page:

    - **Reporting Element Properties:** It provides information on line items or cell references in regulatory reports.

**Table 2: Fields and their Descriptions in Reporting Element Properties**

Fields	Description
Derived	Provides information on whether the cell is derived/computed using other elements.
Confidentiality	Refers to regulator specific interpretation. For MDRM codes, indicates whether the MDRM codes are confidential for disclosure within a specific report.

Fields	Description
Notes	Refers to regulator specific interpretation. For MDRM codes, this field provides a detailed description of a given cell reference.
Start Date	Refers to regulator specific interpretation. For MDRM codes, this field refers to the effective date of particular cell reference in case.
End Date	Refers to regulator specific interpretation. For MDRM codes, this field refers to the effective end/ sunset date of a particular cell reference.

- **Dimension Filters:** This section displays the dimensions and node value filters used to derive a particular cell.
  - **Depends on:** This section displays all the hierarchies (dimensions, filters) and business measures used for arriving at a particular cell / MDRM code.
2. Starting from common metadata used across the application, you may want to know the list of reports/ derived entities this metadata has used. Let us take an example of a measure. To use MDB for metadata wise schedule, for each metadata, identify the schedules in which it is used. Follow these steps to identify the schedules:

- a. To view the measures, navigate to path **Objects → OFSAA Metamodel → Business Metadata → Base Metadata → Measures**. The LHS displays the list of measures.

You can view the below information in this page:

- **Measure Properties:** It provides information on the properties of Business measures. For example aggregation function, Measure Data Type, Business Exclusions, Filter and Rollup Type.
- **Depends on:** This section displays all the object names and their types, such as Entities, Columns and so on.

Follow these steps to view the derived entities used in a given schedule:

**NOTE** The following similar steps are applicable for other metadata such as Business Metadata (Hierarchies, Measures, Variables and so on) and Derived Metadata (Dimensions, Filters and so on).

- a. To view the schedule-wise derived entities, navigate to path **Objects → OFSAA Metamodel → Derived Metadata → Derived Entities**. The LHS displays the list of Schedules.

You can view the following information on this page:

- **Derived Entity Properties:** It provides information on properties of derived entities, such as Source Type, Aggregate Flag, and Materialized View.
- **Depends on:** This section displays all the object names and their types, such as Measure, Hierarchy, and so on.

## 4 Regulatory Reporting Solution Data Flow

This chapter provides an understanding of the data flow. It explains what happens within data flow and how various processing aspects are integrated with the overall data flow. It includes:

- [Data Preparation](#)
- [Mapping of Results to Line Items in Reporting](#)
- [Mapping Metadata](#)
- [AgileREPORTER: Submission](#)

### 4.1 Data Preparation

This section explains the input data preparation from OFSAA. It includes:

- [Assumptions for Data Preparation](#)
- [RBI Run Chart](#)
- [Reclassification of Standard Dimensions](#)
- [Mappers for Reclassification of Reg Dimensions](#)
- [Configuring Setup Tables for Standard Set of Values](#)
- [Run/Execution Expectations](#)
- [Consolidation](#)
- [Projection Data](#)
- [Data Flow from Sources Systems to Staging Area](#)
- [Data Flow from Staging to Results Area](#)
- [Data flow from Staging to Processing Area](#)
- [Data Flow from Processing to Results Area](#)
- [Guidelines for Data Loading to Result Area Tables in Data Foundation for Regulatory Reporting Implementations](#)
- [FSDF Entity Information](#)
- [Fact Tables/Entities](#)

#### 4.1.1 Assumptions for Data Preparation

The following assumptions must be considered before Data preparation:

1. REG REP is a reporting solution, which uses data from underlying fact tables directly for reporting. The end-user is expected to prepare the load for the required data in the reporting area accordingly. Although this has a thin processing layer to reclassify to regulatory dimensions and bands, all the processing measures are expected to be from respective applications and provide as required.
2. It is integrated with the results area of the respective processing application, and any change in the underlying processing can disturb the REG REP data sourcing.

3. Baseline and stress data must be populated with appropriate codes. Inaccurate mappings lead to inaccurate results. For details please refer to [Relationship between Run and Stress](#).
4. For usage of consolidation dimension (which has values like Actual, Budget, Forecast, and so on), all historical data is expected to be tagged as actual for the purpose of reporting vintage data, as per report requirements. For projection data, for a given run and Projection Period (quarter/year), only one set of data is expected to be stored.
5. All processing reporting requirements requiring cash flows, integration package expects bucketed cash flow as an input (meaning a time bucket for cash flow and cash flow amount is expected as input).
6. Need to Populate MPIN\_ACC\_PROD\_REG\_PROD;MPIN\_ACC\_PARTY\_REG\_PARTYmapper tables.

## 4.1.2 RBI RUN CHART

Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack provides the RBI RUN Chart listing the tasks required for the population of data for RBI Reports. This covers the following tasks:

- Setup Table Population
- Stage Dimension Load
- Seeded Dimension Data Population
- Common data Population
- Common Tasks like Exchange Rate Population
- RBI Specific Data Population and Transformation
- Derived Entity Refresh

Download the OFS REG REP RBI 8.0.8.0.0 Run Chart from the [MOS](#).

## 4.1.3 Reclassification of Standard Dimensions

This section provides information about Standard Dimension Tables in the Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack (OFS REG REP RBI) application and step-by-step instructions to use this section.

This section includes the following topics:

- Overview of Reclassification of Standard Dimensions
- Overview of Reclassification of Standard Dimensions Population
- Dimension Data Expectations through SCD
- Overview of Mappers for Reclassification of Standard Dimensions
- Maintenance of Mapper for Reclassification of Standard Dimensions
- Loading Mapper Maintenance through Backend
- Usage of Mapper Tables in Data Flow and Reports

### 4.1.3.1 Overview of Reclassification of Standard Dimensions

There are certain Standard Dimensions in OFS REG REP RBI, which are pre-populated with a standard set of values. These values are used by downstream applications for various reporting requirements. There are equivalent customer-specific dimension tables that are populated using the Slowly Changing Dimension (SCD) process. It is required to reclassify these user-specific values to standard specific values as the reporting expects these standard set of values. The reclassification is done using out of the box Mapper Definitions under the Mapper Maintenance screen.

### 4.1.3.2 Overview of Reclassification of Standard Dimensions Population

These are the out of the box User Specific dimensions to Standard Dimensions reclassification available in OFS REG REP RBI.

User Specific Dimension		Standard Dimension	
DIM_BALANCE_CATEGORY	Balance Category	DIM_STD_BALANCE_CATEGORY	Standard Balance Category
DIM_CREDIT_LINE_PURPOSE	Credit Line Purpose	DIM_STD_CREDIT_LINE_PURPOSE	Standard Credit Line Purpose
DIM_CREDIT_LINE_TYPE	Credit Line Type	DIM_STD_CREDIT_LINE_TYPE	Standard Credit Line Type
DIM_IRC	Interest Rate Curve	DIM_STANDARD_IRC	Standard Interest Rate Curve
DIM_LOB	Line of Business	DIM_STANDARD_LOB	Standard Line of Business
DIM_MITIGANT_TYPE	Mitigant Type	DIM_STD_MITIGANT_TYPE	Standard Mitigant Type
DIM_PARTY_TYPE	Party Type	DIM_STANDARD_PARTY_TYPE	Standard Party Type
DIM_PRODUCT	Product	DIM_STANDARD_PRODUCT_TYPE	Standard Product Type
DIM_GL_ACCOUNT	General Ledger	DIM_STD_GL_TYPE	Standard General Ledger Type
DIM_VEHICLE_TYPE	Vehicle Type	DIM_STD_VEHICLE_TYPE	Standard Vehicle Type
DIM_WRITE_OFF_REASONS	Write Off Reasons	DIM_STD_WRITE_OFF_REASONS	Standard Write Off Reasons
DIM_RECOVERY_TYPE	Recovery Type	DIM_STD_RECOVERY_TYPE	Standard Recovery Type

### 4.1.3.3 Dimension Data Expectations through SCD

By default, all standard dimensions will be pre-populated with seeded data. It is mandatory to have data in user-specific dimensions and then maintain the reclassifications. Therefore, you must execute the SCDs and then map the reclassification codes under Mapper Maintenance.

#### 4.1.3.4 Overview of Mappers for Reclassification of Standard Dimensions

These are out of the box mappers that are available in OFS REG REP RBI for the standard dimension reclassifications:

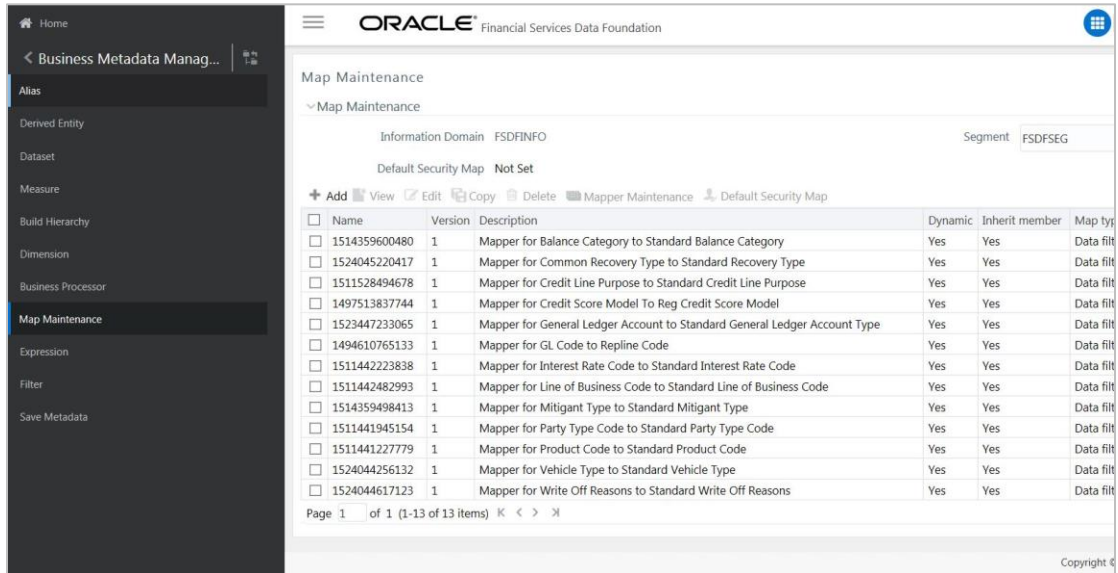
- MAP\_PROD\_CODE\_STD\_PROD\_TYPE: Mapper for Product Code to Standard Product Code
- MAP\_PARTY\_TYP\_STD\_PARTY\_TYP: Mapper for Party Type Code to Standard Party Type Code
- MAP\_CRDLN\_TYP\_STD\_CRDLN\_TYP: Mapper for Credit Line Type to Standard Credit Line Type
- MAP\_DIM\_IRC\_STD\_IRC: Mapper for Interest Rate Code to Standard Interest Rate Code
- MAP\_DIM\_LOB\_STD\_LOB: Mapper for Line of Business Code to Standard Line of Business Code
- MAP\_BAL\_CAT\_STD\_BAL\_CAT: Mapper for Balance Category to Standard Balance Category
- MAP\_CRDLN\_PUR\_STD\_CRDLN\_PUR: Mapper for Credit Line Purpose to Standard Credit Line Purpose
- MAP\_MITG\_TYP\_STD\_MITGN\_TYP: Mapper for Mitigant Type to Standard Mitigant Type
- MAP\_CREDIT\_SCR\_MDL\_REG\_MDL: Mapper for Credit Score Model To Reg Credit Score Model
- MAP\_DIM\_GL\_ACCT\_STD\_GL\_TYPE: Mapper for General Ledger Account to Standard General Ledger Account Type
- MAP\_GL\_CODE\_REP\_LINE: Mapper for GL Code to Repline Code
- MAP\_RECVR\_TYP\_STD\_RECVR\_TYP: Mapper for Common Recovery Type to Standard Recovery Type
- MAP\_VEHCL\_TYP\_STD\_VEHCL\_TYP: Mapper for Vehicle Type to Standard Vehicle Type
- MAP\_WRTOFF\_STD\_WRTOFF\_REASN: Mapper for Write Off Reasons to Standard Write Off Reasons



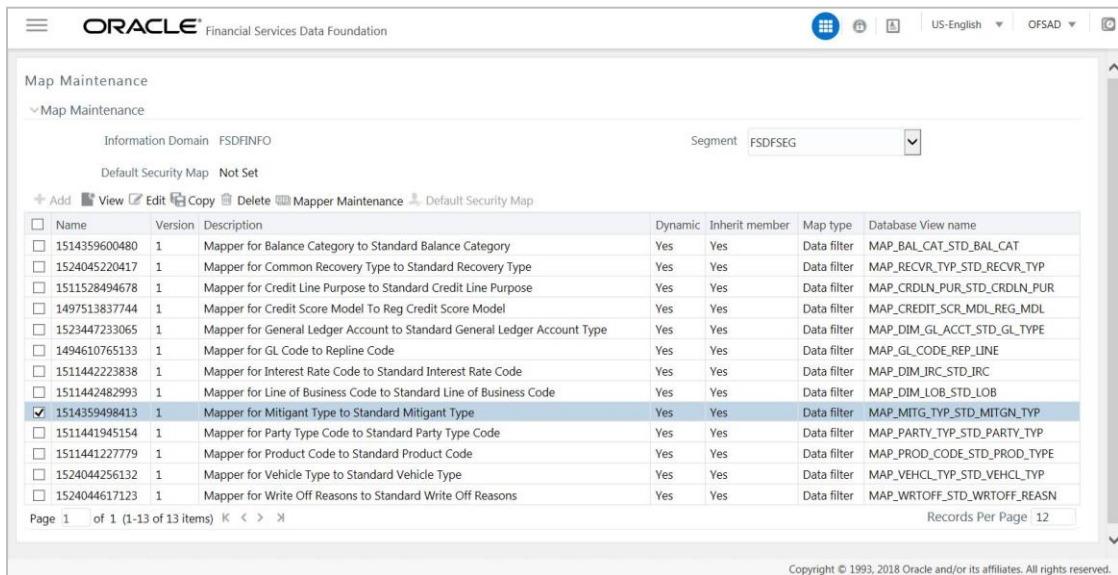
### 4.1.3.5 Maintenance of Mapper for Reclassification of Standard Dimensions

The mapper can be maintained under OFSAAL.

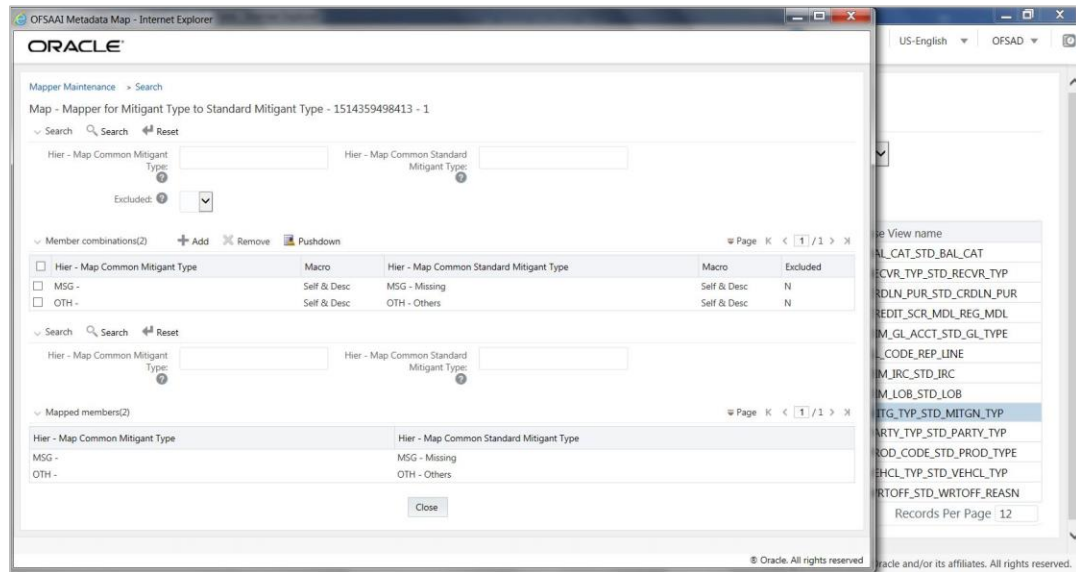
1. Navigate to **OFSAAL > Financial Services Data Foundation > Unified Analytical Metadata > Business Metadata Management > Map Maintenance**.



2. For illustration, we have selected **Mapper for Mitigant Type to Standard Mitigant Type**. Click **Mapper Maintenance**.



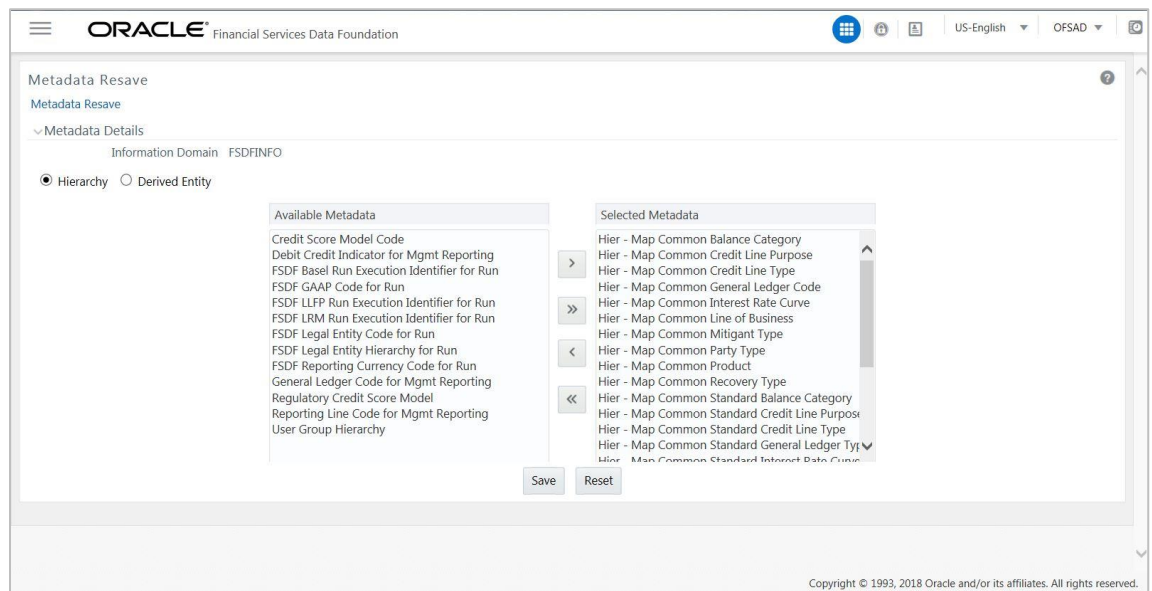
3. OFS REG REP RBI maps OTH and MSG out-of-the-box for this mapper. The remaining mappings can be maintained by the user according to user-specific values.



### Prerequisites for Mapper Maintenance

1. Navigate to **OFSAAI > Financial Services Data Foundation > Unified Analytical Metadata > Business Metadata Management > Save Metadata**. Load all the required user specific dimensions using SCD.
2. To Resave these hierarchies, select these hierarchies and click **Save**
  - HC MDF001 - Hier - Map Common Product
  - HC MDF002 - Hier - Map Common Standard Product Type
  - HC MDF003 - Hier - Map Common Party Type
  - HC MDF004 - Hier - Map Common Standard Party Type
  - HC MDF005 - Hier - Map Common Interest Rate Curve
  - HC MDF006 - Hier - Map Common Standard Interest Rate Curve
  - HC MDF007 - Hier - Map Common Line of Business
  - HC MDF008 - Hier - Map Common Standard Line of Business
  - HC MDF009 - Hier - Map Common Credit Line Type
  - HC MDF010 - Hier - Map Common Standard Credit Line Type
  - HC MDF011 - Hier - Map Common Credit Line Purpose
  - HC MDF012 - Hier - Map Common Standard Credit Line Purpose
  - HC MDF013 - Hier - Map Common Mitigant Type
  - HC MDF014 - Hier - Map Common Standard Mitigant Type
  - HC MDF015 - Hier - Map Common Balance Category
  - HC MDF016 - Hier - Map Common Standard Balance Category

- HC MDF017 - Hier - Map Common General Ledger Code
- HC MDF018 - Hier - Map Common Standard General Ledger Type
- HC MDF019 - Hier - Map Common Vehicle Type
- HC MDF020 - Hier - Map Common Standard Vehicle Type
- HC MDF021 - Hier - Map Common Write Off Reasons
- HC MDF022 - Hier - Map Common Standard Write Off Reasons
- HC MDF023 - Hier - Map Common Recovery Type
- HC MDF024 - Hier - Map Common Standard Recovery Type



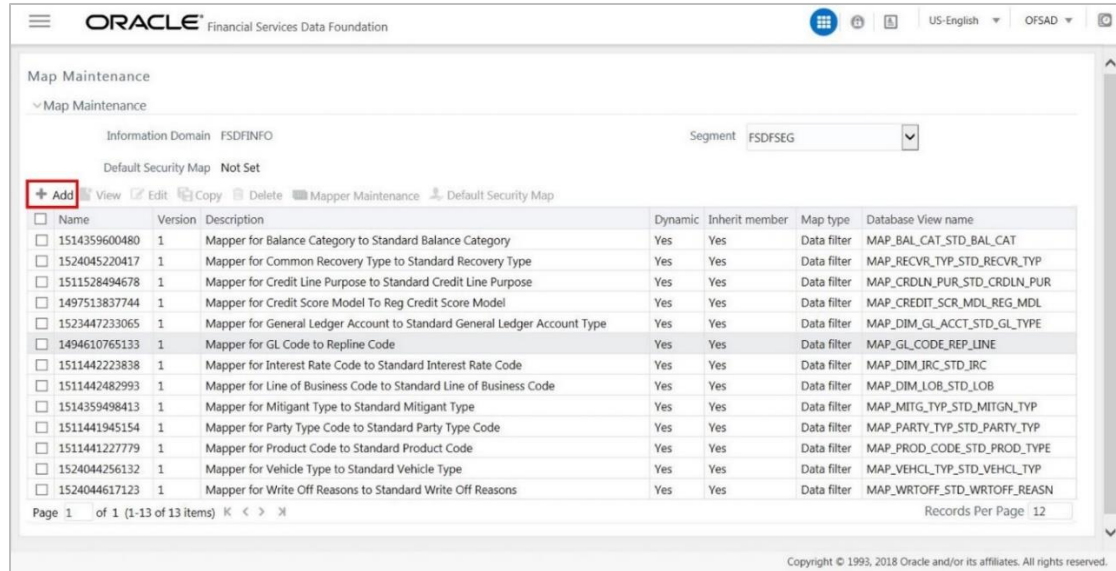
### Possible Mapping Combinations

One Standard Dimension table in the source can be mapped only to one Standard Dimension table. One to Many or Many to Many mapping leads to error in T2T as the records are duplicated. From the illustration, the possible combinations for Mitigant Type to Standard Mitigant Type mapping are One to One and Many to One mappings.

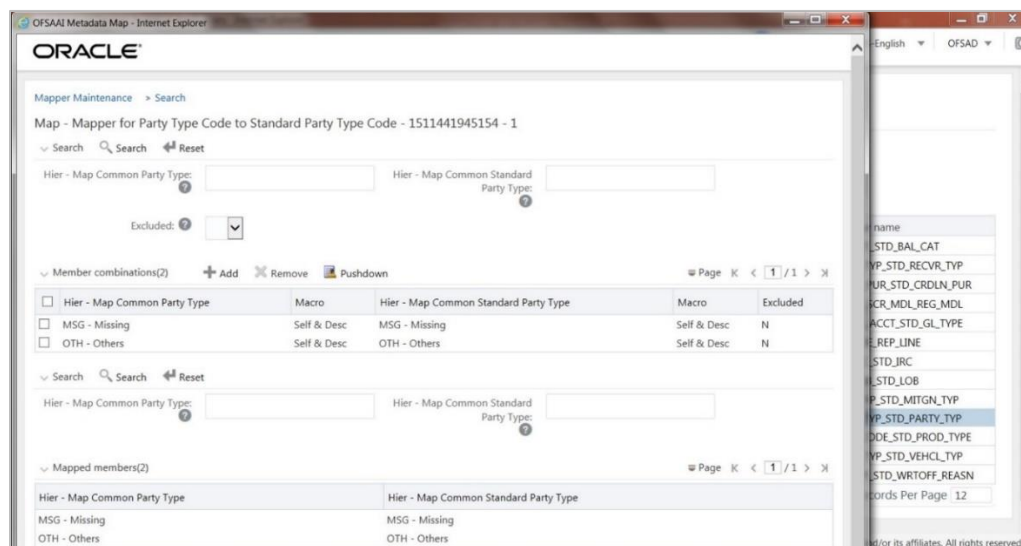
- **One to One Mapping:** You can map one Mitigant Type data model to one Standard Mitigant Type data model using the Mapper Maintenance screen. Here, you must select one value in the Mitigant Type data model and one value in the Standard Mitigant Type data model.
- **Many to One Mapping:** You can map many values in the Mitigant Type data model to one value in the Standard Mitigant Type data model using the Mapper Maintenance screen.

To conduct One to One or Many to One mapping:

1. Navigate to **OFSAAI > Financial Services Data Foundation > Unified Analytical Metadata > Business Metadata Management > Map Maintenance**.

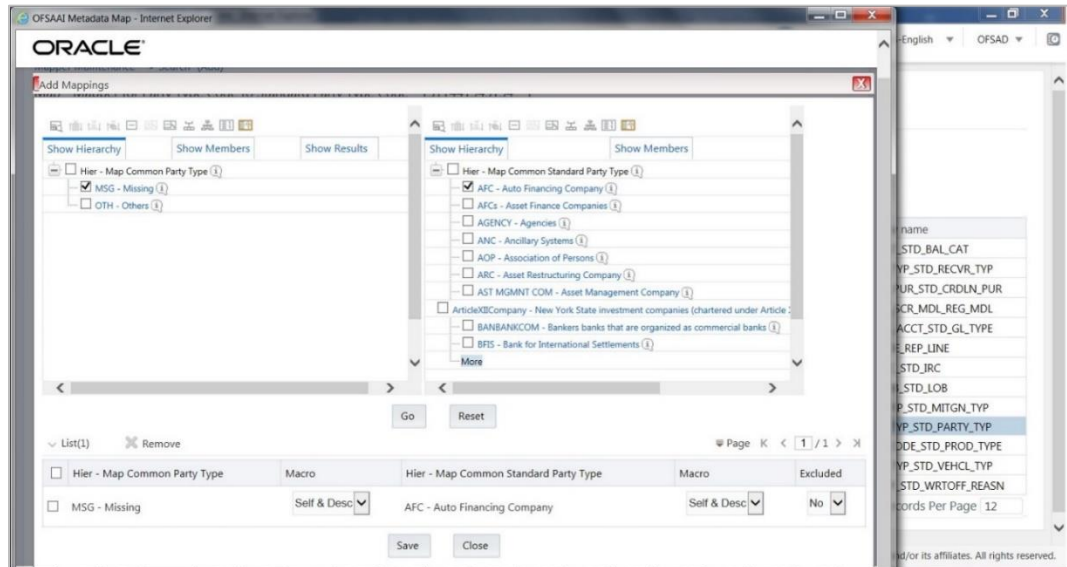


2. Click the **+Add** icon to create a new map; otherwise, select an existing Map. For illustration, **Mapper for Party Type Code to Standard Party Type Code** value is selected. Click the **Mapper Maintenance** icon.
3. The **Mapper Maintenance** window opens (in this illustration, the **Map - Mapper for Party Type Code to Standard Party Type Code** window opens). To conduct One to One or Many to One mapping, in the Member Combinations section, click **Add**.



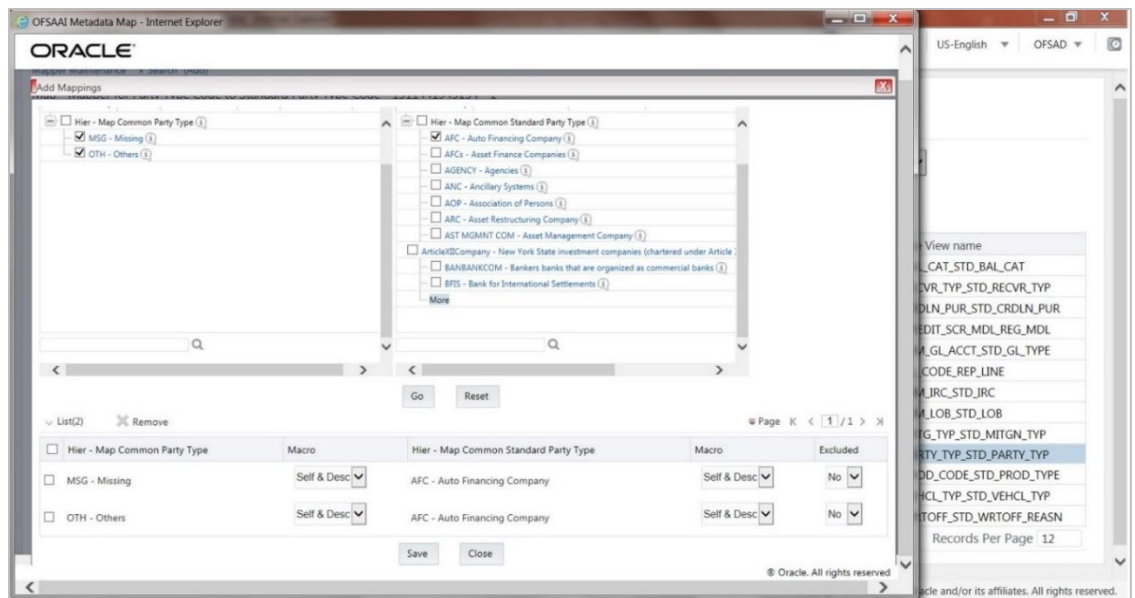
4. The **Add Mappings** pop-up window opens. In this illustration:
  - To map One to One, select one value in the Hier - Map Common Mitigant Type data model and one value in the Hier - Map Common Standard Mitigant Type data model, and click **Go**. Repeat this step for each One to One data model mapping, and then click **Save**.

In this illustration, **MSG - Missing** is mapped to **AFC - Auto Financing Company**.



- To map Many to One, select multiple (two in this illustration) values in the Hier - Map Common Mitigant Type data model and one value in the Hier - Map Common Standard Mitigant Type data model, and then click **Go**. Click **Save**.

In this illustration, **MSG-Missing** and **OTH-Others** are mapped to **AFC-Auto Financing Company**.



##### 5. An acknowledgment is displayed: **Confirm Save?**

Click **Yes** to confirm and save data. In the **Mapper Maintenance** window, in the Mapped combinations and the Mapped member's sections, you can see the newly conducted mapping.

### 4.1.3.6 Loading Mapper Maintenance through Backend

Load each Physical table in Atomic Schema with V\_MAP\_ID as mentioned against each mapper,

V\_MEMBER\_1 => Customer Specific Value Dimension's Member Code, V\_MEMBER\_2 => Standard Dimension's Member Code.

This is the list of Mapper Physical Tables and required details:

PHYSICAL TABLE	V_MAP_ID
MAP_MITG_TYP_STD_MITGN_TYP	1514359498413
MAP_DIM_IRC_STD_IRC	1511442223838
MAP_PROD_CODE_STD_PROD_TYPE	1511441227779
MAP_DIM_LOB_STD_LOB	1511442482993
MAP_CRDLN_PUR_STD_CRDLN_PUR	1511528494678
MAP_PARTY_TYP_STD_PARTY_TYP	1511441945154
MAP_BAL_CAT_STD_BAL_CAT	1514359600480
MAP_CRDLN_TYP_STD_CRDLN_TYP	1511527713328
MAP_CREDIT_SCR_MDL_REG_MDL	1497513837744
MAP_DIM_GL_ACCT_STD_GL_TYPE	1523447233065
MAP_GL_CODE_REP_LINE	1494610765133
MAP_RECVR_TYP_STD_RECVR_TYP	1524045220417
MAP_VEHCL_TYP_STD_VEHCL_TYP	1524044256132
MAP_WRTOFF_STD_WRTOFF_REASN	1524044617123

### 4.1.3.7 Usage of Mapper Tables in Data Flow and Reports

The mapper maintenance output is always physically stored in underlying tables. These tables are registered in OFSAA as an object. Therefore, these tables can be used, without any restrictions, in any of the metadata that requires reclassification. OFS REG REP RBI Data Flows (T2Ts) make use of this information to populate the Standard Dimension Surrogate Keys of Results area tables.

### 4.1.4 Mappers for Reclassification of Reg Dimensions

The following Mapper tables must be configured as a prerequisite for LR v7 report (V\_MEMBER\_1 => Customer Specific Value Dimension's Member Code and V\_MEMBER\_2 => Reg Dimension's Member Code):

- MPIN\_ACC\_PARTY\_REG\_PARTY: Mapper for Party to Reg Party
- MPIN\_ACC\_PROD\_REG\_DEPOSIT: Mapper for Product to Reg Deposit
- MPIN\_ACC\_PROD\_REG\_PROD: Mapper for Product to Reg Product

## 4.1.5 Configuring Setup Tables for Standard Set of Values

The setup configurations which are required to be done before executing the RBI Regulatory Reporting Run are as follows.

### 4.1.5.1 SETUP\_MASTER Table

The SETUP\_MASTER table in the atomic schema must be modified with the required values for RBI.

V_COMPONENT_CODE	V_COMPONENT_DESC	V_COMPONENT_VALUE	Description
DEFAULT_FINANCIAL_ELEMENT	Default Financial Element	DEFAULT	Component Value to be updated according to the values used in STG_GL_DATA.V_FINANCIAL_ELEMENT_CODE. This is used for Fact Management Reporting T2T.
DEFAULT_FX_RATE_SOURCE	Default FX Rate Source	DEFAULT	Component Value to be updated according to the values used in STG_EXCHANGE_RATE_HIST.V_RATE_DATA_ORIGIN. This is used for Calculating the Reporting Currency.
DEFAULT_MARKET_CENTER	Market Center Identifier	DEFAULT	Component Value to be updated according to the values used in STG_INSTRUMENT_MARKET_PRICES.V_MKT_CENTER_ID. This is used for Calculating the Instrument Close Price.
RBI_DEFAULT_PD_MODEL	PD Model for RBI Regulatory Reporting	DEFAULT	Component Value to be updated according to the values used in STG_PD_MODEL_MASTER.V_PD_MODEL_CODE. This is used for Calculating PD Model Band Skey.

## 4.1.6 Run/Execution Expectations

Run refers to execution. It is assumed that at different time periods, different combinations of parameters, and different data require different executions. From a reporting perspective, as required by regulators, RRDF application requires data for the following executions:

1. Current Data / Execution
  - a. Reporting month-end data
  - b. Projection Data
2. Historical (trend/vintage) Data
  - a. Yearly
  - b. Quarterly
3. Stressed Data

For the DSBRROR and RBSTR3 reports, the SETUP\_MASTER table should be updated as follows:

1. DSBRROR: It is expected to display Domestic and Overseas data separately. In such cases, data is expected separately at each legal entity level within the organization structure. Domestic data is populated in the report as data for the legal entities within India. Overseas data is populated in the report as data for the legal entities outside India.
2. RBSTR3: It is expected to display the Year-To-Date (YTD) balance reported quarterly.

Populate the following tables before executing reports in Reporter Portal, and after populating data in the OFSAA results tables through a scheduled batch:

- SETUP\_MASTER: The following parameters must be updated before every regulatory reporting run.

V_COMPONENT_CODE	V_COMPONENT_DESC	V_COMPONENT_VALUE (Sample Value)
CURRENT_QUARTER_NAME	Current Quarter Name	2014-Q2
PREVIOUS_YEAR	Previous Year	2013-2014
PREVIOUS_QUARTER_NAME	Previous Quarter Name	2014-Q1
CURRENT_YEAR	Current Year	2014-2015
CURRENT_MIS_DATE	Current MIS Date	2014-06-30
DEFAULT_GAAP	DEFAULT_GAAP	INGAAP

#### NOTE

For the LR v7 report, SETUP\_MASTER should be updated for DEFAULT\_GAAP value as 'INGAAP' before executing the Account Dimension SCD (<INFODOM>\_REG\_RBI\_ACCOUNT\_SCD: This Batch is for Account Dimension from Product Processor Tables for RBI Regulatory Reporting).

- FCT\_REG\_RUN\_LEGAL\_ENTITY\_MAP: As an Organization should have a hierarchical structure and reporting could happen for the entity at any level in the hierarchy, the applicable reporting entity should be provided as part of every regulatory reporting run in this table.

## 4.1.7 Consolidation

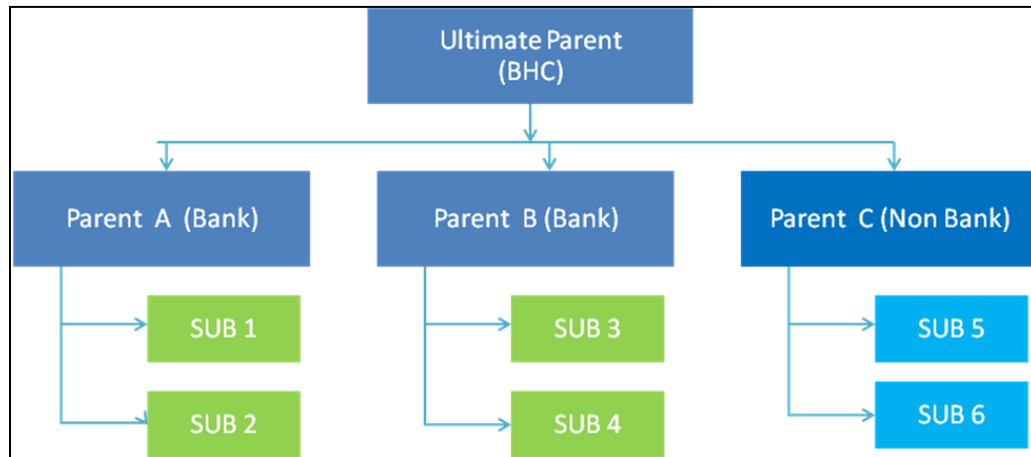
Consolidation is handled as part of Financial Services Data Foundation (FSDF). Consolidation in FSDF refers to the elimination of intracompany transactions, that is, any kind of transactions between two parties or entities which are part of the reporting organizational hierarchy for a given execution. When there is only one legal entity involved in an execution, it is called as SOLO Entity vs earlier one as CONSOLIDATED Entity.

It is expected that in the staging area, the customer loads the data from the source system and then uses consolidation logic to arrive at the consolidated output for results.

- The scope of consolidation is about the list of Entities that participate in consolidation.
- Legal Entity Structure is looked through ORGANIZATION STRUCTURE DIMENSION. This store's a parent-child relationship. This is stored only once.



- While moving the data, Legal Entity can move related entities to the processing/reporting area.
- The legal structure being finalized once, this structure only stores one parent-child relationship.



**Figure 18: Consolidation**

- The transaction/exposure between SUB 1 and SUB 2 must be eliminated when reporting for Parent A.
- The transaction/exposure between SUB 1 and SUB 3 must not be eliminated when reporting for Parent A.
- It is the customer for banking products and the issuer for traded securities that are considered for the intracompany elimination.

Consider the following example:

FSDF AREA	ENTITY CODE	ACCOUNT NUMBER	CUSTOMER	ISSUER
STAGE LOAN CONTRACTS	SUB 1	ACCOUNT 1	SUB 2	
STAGE LOAN CONTRACTS	SUB 1	ACCOUNT 2	PARTY 1	
STAGE INVESTMENT CONTRACTS	SUB 1	ACCOUNT 3	PARTY 1	SUB 2
FCT COMMON ACCOUNT SUMMARY	SUB 1	ACCOUNT 2	PARTY 1	
FSI INTRA COMPANY ACCOUNT	SUB 1	ACCOUNT 1	SUB 2	
FSI INTRA COMPANY ACCOUNT	SUB 1	ACCOUNT 3	PARTY 1	SUB 2

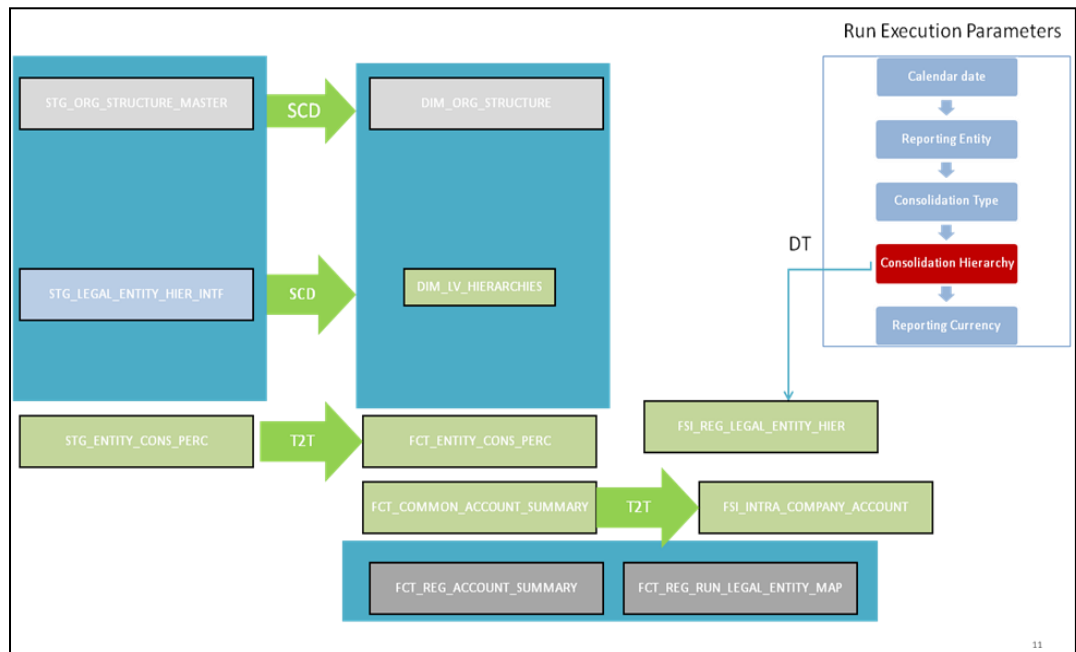
As shown in the preceding table, Account 1 is moved to the FSI INTRA COMPANY ACCOUNT and Account Summary tables. Run Enabled tables contain records specific to the selected legal entity and consolidation type.

Consolidation is also linked to multiple hierarchies banking organizations have. Multiple hierarchies refer to the different grouping of group entities under different parent for a given regulatory requirements.

The hierarchy structure is thus primary input to the consolidation process. Depending on whether you have multiple hierarchies or not, there are two data flows.

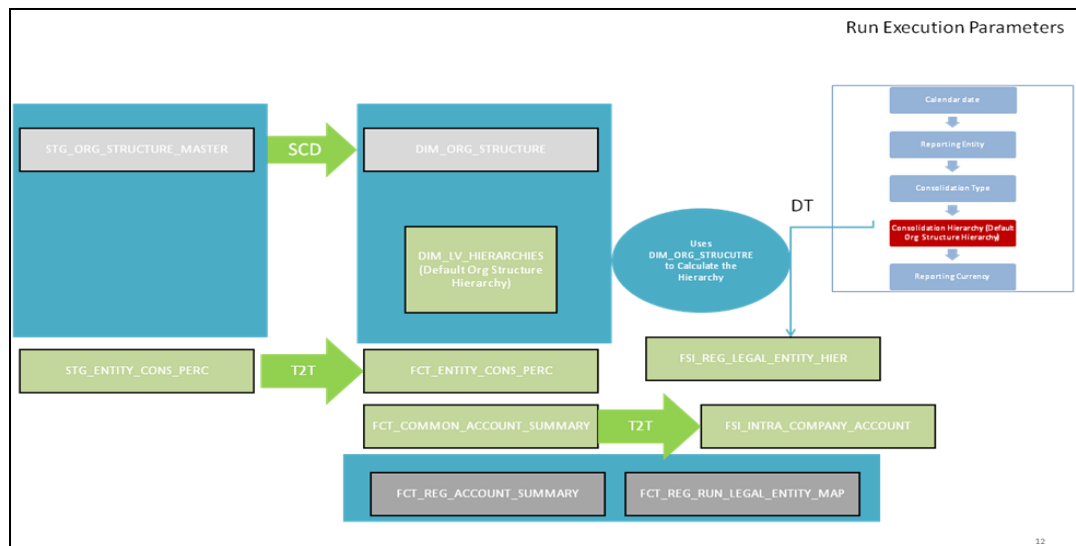
Consolidation with Multiple Organization Structure Hierarchy:

1. You load Organization Structure Hierarchy to STAGE ORG STRUCTURE MASTER table, which is moved to the ORG STRUCTURE DIMENSION using the SCD component.
2. Execution specific organization structure hierarchies along with parent and child entity codes are populated in STAGE LEGAL ENTITY HIERARCHY INTERFACE table, which is moved to LEGAL ENTITY HIERARCHIES DIMENSION using SCD component.
3. Execution specific Consolidation percentage is loaded in STAGE ENTITY CONSOLIDATION PERCENTAGE table, where the child entity code, the parent entity code, and the consolidation percentage is populated. This is moved to FACT ENTITY CONSOLIDATION PERCENTAGE table using Table to Table transformation. In FSDF 804 release, this feature is not supported yet.
4. The STAGE LEGAL ENTITY HIERARCHY is used for the Consolidation process and not the one from ORGANIZATION STRUCTURE DIMENSION.



**Figure 19: Consolidation with Multiple Organization Structure Hierarchy**

5. If you do not have Multiple Hierarchy, STAGE LEGAL ENTITY HIERARCHY which is used for the Consolidation process can be populated from ORG STRUCTURE DIMENSION instead of the STAGE LEGAL ENTITY HIERARCHY.



**Figure 20: Consolidation without Multiple Organization Structure Hierarchy**

**NOTE**

A Solo Run does not require any type of consolidation of the elimination of accounts with other entities.

**Additional Data Preparations to handle Consolidation**

The entity FCT\_REG\_RUN\_LEGAL\_ENTITY\_MAP is used once you select REPORTING ENTITY from AgileREPORTER. This table is populated as part of the RBI Run Execution.

RUN TYPE	FIC MIS DATE	REPORTING ENTITY	RUN EXECUTION
SOLO	20160330	LE1	12
SOLO	20160330	LE2	14
CONSOLIDATED	20160330	LE1	16
CONSOLIDATED	20160330	LE2	16
CONSOLIDATED	20160330	LE3	16

For the solo run, only one reporting entity is expected to be included whereas consolidated run includes all entities involved in execution. This entity provides flexibility to select one REPORTING ENTITY in AgileREPORTER and select relevant data for the particular execution based on if it is consolidated or solo.

### 4.1.7.1 Relationship between Run and Stress

In the OFS REG REP RBI application, for example, the BSR II Annual report picks up reporting data based on the Reporting Run that populates the underlying Fact Table(s). Reporting Run is a flag, which must be marked as 'Y' in a DIM\_RUN table so that, the OBIEE reporting layer selects a particular run execution.

In this application, a Run comprises:

1. **Baseline Run:** The Bank Holding Company (BHC) may have multiple runs. The run used for reporting is marked with a **Reporting Flag = Y**. This is the Baseline run for a given reporting date. It is referred to as Baseline because the values that it represents are not stressed and the BHC may use these base values for stressing them according to various scenarios. A history of such runs accumulated over a period of time provides historical runs. For more information on updating the reporting flag, refer section [Updating Reporting Flag](#).
2. **Stress Run:** Stress runs hold data, which are stressed by a certain percentage/basis point over the Baseline figures. The BHC expects these figures to reflect the business/risk position under predetermined business scenarios/economic conditions.
3. Identification of Baseline and Stress run occurs from STRESS DIMENSION.

In this application, the required stress runs are tagged to a Baseline run. If the BHC performs stress runs, the relevant runs which are intended for reporting are identified and tagged with a reporting Baseline run using the V\_RUN\_ID in the DIM\_RUN.

DIM\_RUN stores n\_run\_skey / v\_execution\_id, which are execution specific for every run definition which is v\_run\_id. Therefore, the run definition can remain constant over a period of time and different executions provide different outputs due to underlying data changes.

DIM\_STRESS conveys the stress definition. Additionally, it links the original run Definition (v\_run\_id) and Stressed run ID (v\_stressed\_run\_id). You must refer to the DIM\_RUN table to get the expected run execution of these runs definitions pertaining to a particular date / n\_mis\_date\_skey.

The same fact table stores both the Baseline data and the Stressed data, uniquely identified through Scenario codes (and Run Skeys).

Refer to the Business Metadata.xls present in the installer package for details on different Fact Tables used for related reports.

### 4.1.8 Projection Data

The following points provide information on the projection data:

1. Baseline run also populates projected date data.
2. This application requires projected data at two levels - Quarterly and Annual.
3. The **DIM\_CONSOLIDATION** table is used to identify the projections. It contains the codes for projected quarters and years as required by the templates.
4. In the Fact tables, projection data is referred to with respective Consolidation codes (scenario code for **FCT\_MGMT\_REPORTING**). BHC must populate the data accordingly.
5. In the following example, FQ1 means Financial Quarter 1, FY1 means Financial Year 1 and so on.

Table 3: Projection Data Example 1

Consolidation Code	Consolidation Description	Reporting Line	Scenario	EOP Balance
100	Actual	100	BSL	426,367
400	FQ1	100	BSL	608,618
401	FQ2	100	BSL	870,502
402	FQ3	100	BSL	567,736
403	FQ4	100	BSL	846,196
404	FQ5	100	BSL	775,027
410	FY1	100	BSL	470,092
411	FY2	100	BSL	473,880
412	FY3	100	BSL	942,034
413	FY4	100	BSL	497,889
414	FY5	100	BSL	807,813

**NOTE**

- For Movement measures data is not carried from one reporting period to another. For example, Profit or Loss. Where General ledger balances such as loan outstanding are carried forward from one year to another, profit and loss are period specific.
- Therefore, unlike End of Period (EoP) balance, movement values for quarter actuals must be derived for reporting. For historical data, net sales for quarter 3 is the difference between the sales figure as of the end of quarters 2 and 3. You do not need to provide this difference as a download. Movement data for actual is identified through different runs and the respective values are summed up.
- Only those records, whose corresponding runs fall between the fiscal month start date and end date of the reporting quarter are selected for summation. Each Run has an associated date, and runs can be performed daily. Assuming that runs are performed daily in a given quarter (90 days), REG REP sums up data points across all 90 days to arrive at a quarter-end movement figure.

Table 4: Projection Data Example 2

Code	Projected Period	Reporting Line	Scenario	Run ID	Date	Projected Amount	Movement
100	Actual	100	BSL	RUNID001	10-Oct-13	300,000	900,000
100	Actual	100	BSL	RUNID002	15-Nov-13	100,000	
100	Actual	100	BSL	RUNID003	20-Nov-13	300,000	
100	Actual	100	BSL	RUNID004	30-Dec-13	200,000	
400	FQ1	100	BSL	--	--	--	608,618
401	FQ2	100	BSL	--	--	--	870,503
402	FQ3	100	BSL	--	--	--	567,736
410	FY1	100	BSL	--	--	--	470,093
411	FY2	100	BSL	--	--	--	473,881
412	FY3	100	BSL	--	--	--	942,035

However, when the projection of net sales for quarter 2 next year is to be performed, no derivation is required. Projections data for the said quarter can be directly downloaded in the respective Fact table(s) for reporting.

## 4.1.9 Data Flow from Source Systems to Staging Area

The staging area is populated with data from various data sources, such as GL data, Account data, Customer data, Trading data, Currency data, and Master data. Refer to *Data Integration Hub (DIH) User Guide* in [OHC](#) Documentation Library for details. DIH enables to load the data from the source systems to the OFSAA staging tables, through logical interfaces, known as Application Data Interfaces (ADI). DIH provides a set of User Interfaces (UI), which is used to define and maintain External Data Descriptor (EDD), Application Data Interfaces, and map the EDDs and ADIs through connectors.

## 4.1.10 Data Flow from Staging to Results Area

This section details the pass-through data, transformed data, and classification.

### NOTE

Data flow from Staging to Results Area is available only for LR/STL, BSRll and Leverage Ratio.

### 4.1.10.1 Pass-Through Data

Pass-through data refers to the static data that is pre-processed and flows to the results area directly. The Common Staging Area (CSA) model represents the data entry point into the FSDF. CSA provides a simplified, unified data sourcing area for inputs required by analytical applications and engines. It consists of over 400 tables and nearly 9000 columns organized into distinct subjects.

The staging area is a physical data model, which is deployed using the Analytical Application Infrastructure, which manages it. The design of the staging area data model is to allow efficient data loading for analytics. It thus has crucial differences from a general-purpose repository of operational/transactional data across a bank.

The staging area acts as the single source of data and contains unified data requirements for various banking areas such as Loans and Losses, Off-balance Sheet products, Securities, Derivatives, Capital Data, Management Ledger and General Ledger. A common example of this category includes various monetary amounts, dates and so on.

### 4.1.11 Data Flow from Staging to Processing Area

The staging area of the FSDF serves as a container for analytical processing from sourcing to consumption. Such processing is usually delivered in the form of discrete units called analytical applications, spanning different analytical use cases ranging from Finance to Risk to Compliance.

These applications consist of custom-built computational engines and numerical libraries, and can execute processes on the data that range from simple aggregations to complex, multi-step stochastic processes such as Monte-Carlo simulation.

Analytical applications place varying demands on the data infrastructure in terms of volumes and speed, and hence, place different demands on the data architecture. In practice, the normalized (3NF) design favored for enterprise data warehouses often fails to be efficient or performant when it comes to analytical processing across a wide range of use cases.

Therefore, the OFSDF recognizes the need for distinct application-specific working stores, separate from the staging and reporting area. For example, the OFSAA Asset and Liability Management (ALM) application have a distinct set of ALM-specific tables, as does the Market Risk solution.

#### NOTE

The structure of these processing area stores is decided by the actual analytical application and engine used. The OFSAA suite of applications is organized this way, with each application managing a specific set of tables/schemas within the processing area.

The processing area tables/schemas are not part of the OFSDF. This is because OFSDF is intended to be an open platform. Other analytical applications and engines can equally provision data out of OFSDF by mapping their input requirements appropriately to the OFSDF staging area model.

### 4.1.12 Data Flow from Processing to Results Area

This step is similar to [Data Flow from Staging to Results Area](#). It involves either pass through data from processing to results or loading directly to results (refer [Section 4.1.13](#)). This is mostly due to processing measures such as Fair Value, Risk-Weighted Assets, and so on.

### 4.1.13 Guidelines for Data Loading to Result Area Tables in Data Foundation for Regulatory Reporting Implementations

Regulatory reports make use of data available across several fact tables in the OFSAA data foundation model and these result tables are either loaded from the raw data sourced from source systems via out-of-box T2T's or processed data output from various OFSAA applications.

For example, Fact LRM Account Summary (FCT\_LRM\_ACCOUNT\_SUMMARY) which stores the liquidity risk related attributes and metrics computed by OFSAA LRM application, Fact Loan Loss Forecasting and Provision Account Summary (FCT\_LLFP\_ACCOUNT\_SUMMARY) which stores the attributes and measures computed by OFSAA LLFP application.

However, there can be several implementation use cases in the regulatory reporting space where the customer may not have licensed any of the OFSAA application and hence must put additional custom effort to design an ETL process to load the required data elements into the respective fact tables referenced by the report. The following section highlights some of the guidelines that the customer can consider when designing a data flow for such a use case:

- **Consistent Usage of Run Identifier**

Most of the fact tables used in regulatory reporting are run enabled and have a composite primary key inclusive of run identifier that enables the same snapshot of data to be loaded multiple times into the target fact table for any given execution date. All the out of the box processes that impact data used in regulatory reports are executed as part of an integrated run to ensure that run identifier is consistent across fact tables. Since the reporting is done on an integrated schema, it is imperative for the custom data flow design to keep this integrity intact. This essentially means that the custom ETL processes designed to load the data directly into the fact tables must be able to leverage the run identifier generated by the run engine during execution. Run Identifier information is available in the DIM\_RUN table.

- **Correct Dimensional Lookup Configuration**

Dimensional identifiers are typically part of referential integrity constraints with the fact table so the custom ETL processes must ensure that lookups retrieve valid surrogate keys for a given value of the business key. The intermediate staging structure must ensure all the business keys are persisted correctly and the lookup condition is designed on the correct dimension table.

For example, FCT\_LRM\_ACCOUNT\_SUMMARY.n\_asset\_level\_skey → DIM\_ASSET\_LEVEL.n\_asset\_level\_skey. The business key (v\_asset\_level\_code) must be sourced and persisted to ensure correct values are populated in the target column, that is, FCT\_LRM\_ACCOUNT\_SUMMARY.n\_asset\_level\_skey.

- **Data Loading Guidelines for handling Negative or Credit Balances**

To handle Negative Balances in Regulatory Reporting, there are two primary sources of the negative balances:

- a. Natural asset negative balances from the system of records
- b. Adjustment entries or Plug entries.

The reporting requirement is to show the genuine asset negative balances as liabilities where adjustment entries should be aggregated to the same heading assets or liabilities as they are loaded. RBI uses General Ledger type from the General Ledger Account dimension. Primarily following two General Ledger Type codes are used for this purpose.

- a. ASSET
- b. LIABILITY

General Ledger is available in every contract or product processor table as General Ledger code. Following products are considered for the treatment of negative balances:

- c. Loans and Cards
  - i. Loans are reported under the Assets category in the Balance Sheet. There are cases when the customer makes an excess payment towards the loan account which makes the end of the period account balance becoming credit balance or negative balance.
  - ii. When excess payment is made, then the account will no longer fall under the Asset category, but it becomes a liability for the financial institution and must be reported as non-interest bearing demand deposits in respective line items.
  - iii. To avoid reporting of the excess payment as assets, you must assign a General Ledger code to the given account with V\_GL\_TYPE\_CODE = 'LIAB'.



- iv. When for any loan regulatory reclassification assigned with GL code having V\_GL\_TYPE\_CODE = 'LIAB', it excludes the reporting for all asset line items and it is added to Liability in respective line items.
- v. Accounts created for Adjustment or Plug entries must have General Ledger code having V\_GL\_TYPE\_CODE = 'AST'. This adds up to the same asset line item resulting in addition or reduction of overall reporting amount for a given line item based on the sign of the end of period (EOP) balance.
- vi. Accounts created for Adjustment or Plug entries for excess payments must have General Ledger code having V\_GL\_TYPE\_CODE = 'LIAB'. This adds up to the same Liability line item resulting in addition or reduction of overall reporting amount for a given line item based on the sign of the end of period (EOP) balance.

#### 4.1.13.1 Data Mapping (T2T)

Data Mapping refers to the process of retrieving unstructured data from data sources for further data processing, storage, or migration. This feature is commonly known as RDBMS source to RDBMS target (T2T) framework in the OFSAA world and can be leveraged when source data is available in the Oracle database. Dimensional lookups must be handled via the T2T's join condition and expressions. Refer to *OFS AAI User Guide* for more details on configuring a T2T.

#### 4.1.13.2 Data File Mapping (Flat File to RDBMS Target - F2T)

If the source data is available in file structures, the OFSAA F2T component can be used to bring the data in the OFSAA ecosystem. As lookups cannot be configured in an F2T, this component must be used in conjunction with the T2T component, that is, data is first loaded from the file to an interim staging structure using the F2T component followed by data load to the target result area table using the T2T component. This is the least recommended approach as there is a need for interim table structure in the data model and involves multiple data hops that add to the overhead.

See the *Oracle Financial Services Analytical Applications Infrastructure User Guide* for more details on [OHC](#) configuring an F2T.

### 4.1.14 FSDF Entity Information

The FSDF entity information is given in the Dimension and Fact tables.

#### 4.1.14.1 Dimension Tables/Entities

**Table 5: Dimension Tables/Entities**

Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
1	DIM_ACQUIRED_FIRM	Acquired Firm Dimension	This table stores the Legal Entity information, which is acquired by the reporting entity.
2	DIM_ACTIVITY_TYPE	Opportunity Activity Type Dimension	This stores the list of activity types that can be performed for an opportunity.
3	DIM_ADDRESS	Address Dimension	This dimension table stores the master address details. The Staging table is Stage Address Master.

Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
4	DIM_APPLICATION_REJECT_REASONS	Application Reject Reasons Dimension	This table stores the list of rejection reasons possible while processing an application. This is a dimension table.
5	DIM_APPLICATION_STATUS	Application Status Dimension	Stores the master list of application status – processing, canceled by the customer, outstanding, outstanding from restructuring, and so on.
6	DIM_APPLICATION_TYPE	Application Type Dimension	This stores the application types - Fresh, Existing, and Enhancements.
7	DIM_ATTRITION	Attrition Dimension	List of reasons why customers terminate the relationship with the Financial Institution.
8	DIM_AUTH_DECISION_REASONS	Authorization Decision Reasons Dimension	This table stores the master list of authorization decision reasons like delinquency, fraud and so on.
9	DIM_AVAIL_INTRADAY_LIQ_SOURCE	Dimension Available Intraday Liquidity Source	This entity stores the standard list of available intraday liquidity sources. For example: "Reserve balances at the central bank", "Balances with other banks that can be used for intraday settlement" as mentioned in BCBS 248.
10	DIM_BALANCE_CATEGORY	Balance Category Dimension	This dimension entity stores the list of categories that a Balance can have.
11	DIM_BANK_INSTRUMENT_TYPE	Bank Instrument Type Dimension	This entity holds the unique list of all the Instrument Type used by the Financial Institution and the details of each Instrument Type.
12	DIM_BILL_PLAN	Billing Account Dimension	The account by which bills are generated and payments applied for the policy premium. This can be the same as a policy or different. Multiple policies can be associated with the same bill plan.
13	DIM_BUSINESS_CLASSES	Business Class Dimension	This table stores the list of all the applicable business classes for the entities. This refers to Article 159 and subsequent annexures.
14	DIM_BUSINESS_SEGMENT	Business Segment Dimension	This table stores the list of applicable business segments in which an entity operates.
15	DIM_BUSINESS_UNIT	Business Unit Dimension	This table stores various details of the business units that operate under the bank. This is used for pillar 3 reporting.
16	DIM_CAMPAIGN	Campaign Dimension	This entity stores the account-wise summary details for the product processor.
17	DIM_CAMPAIGN_CHANNEL	Campaign Channel Dimension	This entity stores the list of channels that a campaign can utilize.
18	DIM_CAPITAL_REQUIREMENT_TYPE	Capital Requirement Type Dimension	This table stores the list of capital requirement types as specified by the supervisor.
19	DIM_CARDS_MASTER	Cards Master	This table stores the card's products.
20	DIM_CARD_TYPE	Card Type Dimension	This entity stores the list of all types of cards issued by the bank.

Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
21	DIM_CATASTROPHE_EVENTS	Catastrophe Events Dimension	Dimension table to store catastrophic events for a claim.
22	DIM_CAUSES	Causes Dimension	This table stores the information about causes defined in the system, the list of values is like Earthquake, Loan Fraud, Theft, and so on.
23	DIM_CDS_INDEX	CDS Index Name Dimension	This table stores the various CDS index names.
24	DIM_CHANNEL	Acquisition Channel Dimension	This entity stores the master list of acquisition channel codes available for acquiring new accounts. New accounts are analyzed by acquisition channel codes, to determine the most efficient channels for acquisition.
25	DIM_CHANNEL_TXN	Channel Transaction Dimension	This entity stores the list of all transaction channels offered by the Bank. These are the channels through which a customer transaction is processed.
26	DIM_CLAIM	Claim Dimension	This table stores the list of all claims.
27	DIM_CLAIM_REFERRAL_REASON	Claim Referral Reason Dimension	This table stores different referral reasons for a claim.
28	DIM_CLAIM_REFUSAL_REASON	Dimension Claim Refusal Reason	This table stores the list of all the reasons for which a claim can be refused by the entity.
29	DIM_CLAIM_STATUS	Dimension Claim Status	This table stores the list of all status codes and descriptions, which are applicable for a claim transaction.
30	DIM_COLLATERAL_PURPOSE	Collateral Purpose Dimension	This table stores the list of all applicable uses of collateral like a pledge, held, and so on.
31	DIM_COLLECTION_OFFICER	Collection Officer Dimension	This entity stores the collection officer details.
32	DIM_COMMODITY	Commodity Information	This entity stores the master list of commodities in which a bank does trading. For example: Sugar, Steel, Rubber, and so on.
33	DIM_COMMODITY_GRADE	Commodity Grade Dimension	This table stores the grades of all tradable commodities or forms of the commodity. For example: Soyabean (commodity) can have multiple grades such as soyabean oil, soybean seed, soybean meal, and so on. This table is an SCD. The MASTER table for this Dimension table is STG_COMMODITY_GRADE_MASTER.
34	DIM_COMMON_COA	the Chart Of Accounts Dimension	This table stores the Common COA members in BI.
35	DIM_CONSENT_PURPOSE	Consent Purpose Dimension	This table stores the Consent Purpose definitions received from source systems.
36	DIM_CONSOLIDATION_APPROACH	Dimension Consolidation Approach	This table stores the list of all approaches used for consolidating related undertakings with parent undertakings.

Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
37	DIM_CONTACT	Contact Dimension	This entity stores the list of contacts imported by the Financial Institution.
38	DIM_COVERAGE_STATUS	Coverage Status Dimension	This table stores the list of all statuses for coverage.
39	DIM_COVERAGE_TYPE	Coverage Type Dimension	This table stores the list of all coverage types.
40	DIM_COVERAGE_WITHDRAWAL_STATUS	Coverage Withdrawal Status Dimension	This table stores the Policy Coverage Withdrawal Status description. Values can be STANDARD, LIFE WITHDRAWAL, and NO WITHDRAWAL.
41	DIM_CREDIT_CENTER	Credit Center Dimension	This table stores the credit center location codes.
42	DIM_CREDIT_LINE	Credit Facility Dimension	This table stores the credit facility definition. The credit facility is a committed line of credit given to a customer who can have multiple draws/exposures out of a given credit line.
43	DIM_CREDIT_LINE_PURPOSE	Credit Facility Purpose Dimension	This table stores the purpose of the said credit facility. Values expected are a combination of Lending Purpose, Facility Type, and so on.
44	DIM_CREDIT_LINE_STATUS	Credit Line Status Dimension	This table stores the account's credit line status values as used by the customer. The status of the credit line can be Active, Frozen, and Closed. This is a customer dimension.
45	DIM_CREDIT_LINE_TYPE	Credit Facility Type Dimension	This table stores the credit facility types. It is expected to hold Direct or Modified values of Facility Type like: REVOLVING CREDIT Term Loan REVOLVING CREDIT converting to Term Loans and so on. Unlike the standard credit line type, this is an open list.
46	DIM_CREDIT_OFFICER	Credit Officer Dimension	This entity stores the credit officer details.
47	DIM_CREDIT_PARTICIPATION	Credit Participation Dimension	This table stores the credit participation information. It details the various attributes of a given credit participation ID.
48	DIM_CREDIT_PARTICIPATION_TRNCH	Credit Participation Tranche Dimension	This table stores the credit participation tranche information. It details the various attributes of a given credit participation tranche.
49	DIM_CREDIT_PARTICIPATION_CONTRACT	Credit Participation Contract Dimension	This table stores the contract identifiers for the main participation or syndication contract.

Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
50	DIM_CREDIT_PARTC TION_TRANCHE	Credit Participation Tranche Dimension	This table stores the contract identifiers for the tranche participation or syndication contract. Banks can open one default or multiple tranches under a given main contract. Different banks can participate in loan syndication for different tranches. The lead bank can choose the banks among the syndication who can participate as well.
51	DIM_CREDIT_QUALIT Y_TYPE	Credit Quality Type Dimension	This entity stores the credit quality information relevant to an account. It helps in analyzing the performance of the account at the portfolio level. A list of values is Pass, Low Pass, Pre Watch, Watch list, Doubtful, and so on.
52	DIM_CREDIT_REASON	Credit Reason Dimension	This table stores the master list of credit reasons.
53	DIM_CREDIT_SCORE_ MODEL	Dim Credit Score Model	This entity stores the list of credit score models used in arriving at the credit score. FICO and Vantage scores can be examples of models used.
54	DIM_CUSTODIAN	Custodian Dimension	This table stores the custodian related information.
55	DIM_CUSTOMER	Customer Dimension	This entity stores the list of the organization's customers and customer attributes. It includes even those customers who have ceased to have a relationship with the organization.
56	DIM_CUSTOMER_EMP LOYMENT_TYPE	Customer Employment Type Dimension	This entity stores the employment type information related to the customer. This information helps in understanding the employment/business of the customer to which the bank has given the loan. A list of values is Professional Service, Self-Employment, Small Scale Business, Medium Scale Business, Private Enterprise, and so on.
57	DIM_CUSTOMER_SER VICE_ENROLL	Customer Service Enrollment	This table stores the service enrollments that the customer can enroll in. The set of services and subscriptions can be Online Registration, Social Media Following, Mobile Application Download, Credit Protection, ID Protection, Money Management Tool, Standing Instructions, ECS/ Direct Debits, Newsletter, Fee-based Enrollments, Supplementary Cards, Secure Code / Safekey, Auto Redemption / Cashback, Contactless / NFC Enrollment, Comprehensive Card Protection.
58	DIM_CUSTOMER_TYP E	Customer Type Dimension	This entity stores the master list of customer types: OUR / OTH.
59	DIM_DATA_ORIGIN	Data Origin Dimension	This table stores the source system codes from which the staging data originated.
60	DIM_DEALER	Dealer Dimension	This table stores the master list of Trading Book dealers.
61	DIM_DEALER_GROUP	Dealer Group Dimension	This table store the master list of dealer groups.

Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
62	DIM_DECISION_STAT US	Decision Status Dimension	This table contains the master list of application decision status like pending, referred, canceled and so on.
63	DIM_DEDUCTIBLE	Policy Deductible Dimensions	This table stores the information related to deductible, types, applies to information.
64	DIM_DEPOSIT_SUB_A CCOUNT	Split Deposit Sub Account Dimension	This table stores the sub-accounts for split deposits. Banks often split deposit to differentiate transactional and non-transactional balances for the purpose of regulatory reporting. This table stores the details of split sub-accounts along with the reference of the original deposit account.
65	DIM_DEVIATION_REA SONS	Deviation Reasons Dimension	This entity stores the unique set of deviation reasons that are used to analyze up to 5 deviations that are granted to applicants.
66	DIM_DOCUMENT_TYP E	Document Type Dimension	This entity stores the various types of documents. The types of documents can be bank specified or as required to the process in the bank. This table stores the list of all types of documents that are required by the bank for an account. For example: HUD, Know before you Owe, and so on.
67	DIM_DRIVER	Driver Dimension	This table stores the driver details.
68	DIM_DWELLING	Dwelling Dimension	This table stores the dimensional information for a dwelling fire, commercial property, and commercial autos.
69	DIM_EDUCATION	Education Dimension	This entity stores the education details.
70	DIM_EMAIL	Email Dimension	This table stores the master email details. The staging table is Stage Email Master.
71	DIM_EMPLOYEE	Employee Dimension	This table stores the employee information.
72	DIM_ENCUMBRANCE_ SOURCES	Encumbrance Sources Dimension	This table stores the Encumbrance Sources required by Ana-Credit.
73	DIM_EXPOSURE	Exposure Dimension	This entity stores the account-wise summary details for the product processor.
74	DIM_EXPOSURE_SENI ORITY	Exposure Seniority Dimension	This entity stores the different levels of exposures seniority.
75	DIM_FIXED_ASSETS	Fixed Assets Dimension	This table stores the data related to fixed assets. Fixed assets are physical assets such as Buildings, Land, Machinery, Automobiles, Gold bullion, and so on. They can be sold and appropriate profit/loss can be recognized based on appropriate accounting principles.

Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
76	DIM_FIXED_ASSETS_TYPE	Fixed Assets Type Dimension	This table stores the data related to the type of fixed assets. Types of fixed assets are Real Estate, Equipment, Automobiles, and so on. Type under the movable category includes automobiles. Type under the immovable category includes real estate, equipment, and so on. The STG_FIXED_ASSETS_TYPE_MASTER is the master table for this dimension, wherein bank provided inputs of fixed asset types are captured.
77	DIM_FORBORNE_STATUS	Forborne Status Dimension	This table stores the forbearance statuses.
78	DIM_FRAUD_REASONS	Fraud Reasons Dimension	This table stores the master list of fraud reasons.
79	DIM_FUND	Fund Dimension	This table stores a list of all funds used by the entity.
80	DIM_GEOGRAPHY	Geography Dimension	This dimension entity stores the list of geographical locations where any of the transaction channels of the bank are located.
81	DIM_GL_ACCOUNT	General Ledger Account Dimension	This table stores the GL account details.
82	DIM_GL_ACCOUNTING_HEAD	GL Accounting Capital Head Dimension	This table stores the subset of GL heads which constitute banks accounting capital.
83	DIM_GL_BOOK	GL Book Dimension	This table stores the GL book.
84	DIM_GUARANTEE_SCHEME	Credit Guarantee Scheme Dimension	This table stores the scheme name under which a collateral-free credit is granted to the counterparty. The exposure disbursed under these schemes are considered to be guaranteed by the Trust implementing these schemes.
85	DIM_GUARANTOR_TYPE	Guarantor Type Dimension	This table stores the guarantor type.
86	DIM_HEDGE_PORTFOLIO_SET	Hedge Portfolio Set Dimension	This table stores the unique hedge identification under which the accounts are covered.
87	DIM_HEDGE_STATUS	Hedge Status Dimension	This table stores the applicable statuses for a hedge transaction.
88	DIM_HEDGE_TYPE	Hedge Type Dimension	This table stores the types of hedge transactions. For example: values include Delta Hedge, Gamma Hedge, and so on.
89	DIM_HOME_OWNERSHIP	Home Ownership Dimension	This table stores the master list of ownership codes like own home, own mobile, rented home, and so on.
90	DIM_HOUSEHOLD	Household Dimension	This entity stores information about the household. More than one customer can belong to a Household.
91	DIM_INFL_INDEX	Inflation Index Name Dimension	This entity stores the master list of indexes that are used to measure inflation in an economy. Inflation is the rate at which the general level of prices for goods and services is rising and, consequently, the purchasing power of currency is falling.

Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
92	DIM_INDUSTRY	Industry Dimension	This entity stores the industry information.
93	DIM_INSTRUMENT_CONTRACT	Instruments Contracts Dimension	This entity stores the contracts and instruments in the market and their attributes.
94	DIM_INSURANCE_CLASS_CODE	Insurance Class Code Dimension	This table stores the different ISO classification codes for insurance.
95	DIM_INSURANCE_COVERAGE	Insurance Coverage Dimension	This Band table stores the insurance coverage in terms of percentage.
96	DIM_INSURANCE_SCHEME	Dimension Insurance Scheme	This entity stores the details of the insurance scheme.
97	DIM_INS_LAPSE_RATE_GROUP	Insurance Lapse Rate Group Dimension	This table stores the insurance lapse rates to be used for the valuation of insurance policies. In another table lapse rate group code binds multiple lapse rates under one heading.
98	DIM_INS_MORBIDITY_TABLE	Insurance Morbidity Table Dimension	This table stores the morbidity rates. It is a statistical table used by actuaries in determining the incidence of illnesses and accidents and the longevity of the disability resulting therefrom. Used in computing policy premiums and reserves.
99	DIM_INS_MORTALITY_TABLE	Insurance Mortality Table Dimension	This table stores the mortality table required for insurance carriers. A 'Mortality Table' is the one that shows the rate of deaths occurring in a defined population during a selected time interval, or survival from birth to any given age. Statistics included in the mortality table show the probability of a person's death before their next birthday, based on their age. Also, known as a period table, this is based on the mortality experience of a population during a relatively short period of time. In the dimension table, a definition of a mortality table is stored.
100	DIM_IRC	Interest Rate Curve Dimension	This entity stores the interest rate curve definitions.
101	DIM_ISSUER	Issuer Dimension	This entity is used as an issuer of marketable collaterals.
102	DIM_ISSUER_TYPE	Issuer Type Dimension	This entity stores the Issuer Types.
103	DIM_LEGAL_PROCEEDING_STATUS	Legal Proceeding Status Dimension	This entity stores the legal proceeding status codes for the customer along with the descriptions for each status code.
104	DIM_LEGAL_REPORTING	Legal Reporting	This entity stores the legal reporting hierarchy of an organization. The lowest level of the hierarchy is the booking transit and the highest level is the whole Financial Group defined as per the BASEL guidelines.



Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
105	DIM_LITIGATION	Litigation Dimension	This table stores the information regarding claims wherein litigation (court case) has been initiated by a claiming party. The litigation provides additional detail for claims that have been included in a court case.
106	DIM_LOAN_PARTICIPATION	Loan Participation Dimension	This table stores the participation loan details.
107	DIM_LOAN_PARTICIPATION_TRANCHE	Loan Participation Tranche Dimension	This table stores the participation loan tranche details.
108	DIM_LOAN_PURPOSE	Loan Purpose Dimension	This table stores the master list of loan purposes, for example, a new purchase, loan refinancing and so on.
109	DIM_LOAN_RECOURSE_TYPE	Loan Recourse Type Dimension	This table stores the loan recourse type and category. For example: Interest-only / Principle only: Full / Partial.
110	DIM_LOB	Line Of Business Dimension	This entity stores the account-wise summary details for the product processor.
111	DIM_LOCATION	Location Dimension	This table stores the location dimension.
112	DIM_LOSS_MITIGATION_PROGRAM	Loss Mitigation Program Dimension	"This table stores the loss mitigation program details. Examples of loss mitigation programs include match pay, temporary mitigation programs lasting up to 12 months, or permanent mitigation programs lasting more than one year.
113	DIM_LOSS_SHARE_AGREEMENT	Loss Share Agreement Dimension	This table stores the specific loss-sharing agreements. A unique ID should be generated for each active sharing agreement. The specific ID should be consistent over time for as long as the agreement remains active without a relevant change in the terms of the loss-sharing agreement. The institution should also provide a written summary of the relevant terms of each loss-sharing agreement along with the corresponding Loss Share ID number. Additional supporting documentation may be requested if necessary. Report blank if the account is not associated with a loss-sharing agreement.
114	DIM_LV_HIERARCHIES	Hierarchy Level Dimension	This table stores the hierarchy level information.
115	DIM_MANAGEMENT	Account Management Dimension	This entity stores the organization hierarchy across the management.
116	DIM_MARITAL_STATUSES	Marital Status Dimension	This entity stores customer marital status details.
117	DIM_MARKET_CELL	Market Cell Dimension	This table stores the list of market cells.
118	DIM_MARKET_VARIABLES	Market Variable Dimension	This entity stores the dimensional data of the general market variables like GDP, CPI, and so on.

Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
119	DIM_MERCHANT	Merchant Dimension	This table stores the merchant details.
120	DIM_MERCHANT_CATEGORY	Merchant Category Dimension	This entity stores the master list for all categories of merchants who own the bank's POS terminals.
121	DIM_MIGRATION_REASONS	Migration Reasons Dimension	This entity stores a unique set of deviation reasons that are used to analyze up to 5 deviations that are granted to applicants.
122	DIM_MITIGANT	Mitigant Dimension	This entity stores the information on various risk mitigants like collateral, guarantee, nettable liabilities, and so on.
123	DIM_MITIGANT_SECURITY_INT_TYPE	Mitigant Security Interest Type Table Dimension	This table stores the bank-specific security interest types. A security interest is a type of property interest created by agreement or by operation of law over assets to secure the performance of an obligation usually the payment of a debt.
124	DIM_MITIGANT_TYPE	Mitigant Types Dimension	This entity stores the master list of mitigant types given by the customers against their exposures. Possible types include: Collateral, Guarantee, and so on.
125	DIM_MKTG_PROGRAM	Marketing Program Dimension	This entity stores the list of programs for the execution of the campaign. A program is a container for organizing, designing, and executing multistage, triggered, and recurring marketing programs using new or existing campaigns.
126	DIM_MORT_SERV_RIGHTS	Mortgage Servicing Rights Dimension	This table stores the unique mortgage servicing rights. In turn, this table helps identify unique mortgage servicing rights.
127	DIM_MR_ASSET	Asset Dimension	This entity stores the list currencies and the commodities where the commodity is used to identify the commodity risk factor and currency for other risk factors.
128	DIM_NETTING_AGREEMENT	Netting Agreement Dimension	This table stores the details of the Netting Agreement. Netting agreement happens between a bank and a counterparty for OTC derivative and SFT transactions. Examples of netting agreements are ISDA, FOA, EEI, and so on.
129	DIM_NON_PERFORMING_CATEGORY	Non-Performing Category Dimension	This entity stores the various categories of non-performing accounts which are required by management to analyze and take action. This is a generic category and will change from bank to bank, each non-performing account will be associated with one of these categories. Non-performing categories can be Non-Accrual, Other Real Estate Owned, Restructured, Purchased Assets, Held for Sale, and Others. Categorization of Non-performing accounts is bank-specific helping them to have a better analysis of the risk.

Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
130	DIM_OFFER	Offer Dimension	This entity stores the offers for a campaign. An offer is a single proposition or message to a customer that provides an incentive to respond. Offers are associated with a campaign and then presented to contacts and prospects when the campaign is launched. Offers can be reused in many campaigns, but the campaign is a one-time instance of the offer presented to a customer at a certain point in time.
131	DIM_OPTY_WL_REASON	Reason Dimension	This entity stores the list of opportunity Win or Loss reasons.
132	DIM_ORG_STRUCTURE	Organization Structure Dimension	This entity stores the organizational structure of the financial institution.
133	DIM_ORG_UNIT	Organization Unit Dimension	This table stores the organization unit information.
134	DIM_OWNERSHIP_CATEGORY	Ownership Category Dimensions	This entity stores the ownership categories for the account. Ownership categories are a set of conditions that a depositor must meet to qualify for deposit insurance coverage. Each deposit insurance scheme can have a different set of ownership categories. For example: FDIC ownership categories are Single Accounts, Certain Retirement Accounts, Joint Accounts, Revocable Trust Accounts, Irrevocable Trust Accounts, Employee Benefit Plan Accounts, Corporation/Partnership/Unincorporated Association Accounts and Government Accounts. Most Common Owner Categories used are Single Accounts, Joint Accounts, Certain Retirement Accounts, and Revocable Trust Accounts.
135	DIM_PARTNER	Partner Dimension	This entity stores the information of the Partners who are associated with the financial institution.
136	DIM_PARTY	Party Dimension	This table stores the history of party details. The party here can be a customer, issuer, guarantor, and so on.
137	DIM_PARTY_TYPE	Party Type Dimension	This table stores the party type. The party here can be a customer, issuer, guarantor, and so on.
138	DIM_PARTY_RELATIONSHIP_TYPE	Party Relationship Type Dimension	This table stores the relationship types defined by the Bank. The table is used to determine the relationship type between two parties. This can also be used for relationship type between an entity and a party, wherein the entity is represented by the party.

Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
139	DIM_PAYMENT_SETTLEMENT_SYSTEM	Payment Settlement System Dimension	This entity stores the list of available payment and settlement systems. A payment and settlement system can be described as a system that consists of a particular group of institutions and a set of instruments and procedures, designed to ensure the circulation of money and speed up interbank and other settlements resulting from the various economic transactions either within a country or between countries.
140	DIM_PD_MODEL	Probability Of Default Model Dimension	This table stores the probability of default model name, description, and version details.
141	DIM_PHONE	Phone Dimension	This table stores the master phone details. The staging table is Stage Phone Master.
142	DIM_PLACED_COLLATERAL	Placed Collateral Dimension	This table stores the master collaterals information that is placed by the financial institution with other financial institutions in order to secure its borrowings.
143	DIM_PLANNED_ACTION	Planned Action Dimension	This table stores the Planned Actions that are required for Basel III and Dodd-Frank schedule. Financial Institutions should capture all material planned actions, including, but not limited to, the roll-off or sale of an existing portfolio, the issuance of regulatory capital instruments and other strategic corporate actions.
144	DIM_POLICY	Policy Dimension	This table stores the list of all policies.
145	DIM_POLICY_COVERING_BASIS	Policy Coverage Basis Dimension	This table stores the coverage base code. The coverage amount is calculated using this Base code. For example: Coverage amount is based on the percentage of Covered Fund plus the percentage of Excluded Funds. In this case, the Covered Fund and Excluded Fund become the base. This is a customer-specific dimension and values mentioned above are for illustration only.
146	DIM_POLICY_LAPSE_REASON	Policy Lapse Reason Dimension	This table stores the list of all the reasons why policies lapse.
147	DIM_POLICY_TYPE	Policy Type Dimension	This table stores the different types of policies issued by the entity. The types of policies are Third Party Liability, Directors and Officers Liability Insurance, Products Liability Insurance and so on.
148	DIM_POOL_CLASS	Pool Class Dimension	This table stores the master list of securitization pool classes.
149	DIM_POOL_IDENTIFICATION	Pool Identification Dimension	This table stores the master list of securitization pools.
150	DIM_PORTFOLIO	Portfolio Dimension	This table stores the list of all portfolios defined by the entity.
151	DIM_POSITION_TYPE	Position Type Dimension	This table stores the various positions of a marketable instrument.

Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
152	DIM_PREPAYMENT_REASON	Prepayment Reason Dimension	This entity stores the various reasons for the prepayment of a loan amount.
153	DIM_PRODUCER	Producer Dimension	This table stores the producer details.
154	DIM_PRODUCER_AGENT	Producer Agent Dimension	This table stores the details of the agent working in agency/producer.
155	DIM_PRODUCT	Product Dimension	This table stores the details of all the products (existing/stopped) offered by the Financial Institution.
156	DIM_PRODUCT_CATEGORY	Loan Product Category Dimension	This table stores the loan product category information.
157	DIM_PRODUCT_FEATURE	Product Feature Dimension	This entity stores the product feature details.
158	DIM_PRODUCT_TYPE	Product Type Dimension	This entity stores information on all types of lending products.
159	DIM_PROFESSION	Profession Dimension	This entity stores the list of professions that a customer can possibly be employed in.
160	DIM_PROGRAM_MASTER	Program Dimension	This table contains the master list of programs launched by banks. Programs are like COC (Cash on Call), BT (Balance Transfer), and so on.
161	DIM_PROSPECT	Prospect Dimension	This entity stores the list of prospects imported by the financial institution.
162	DIM_PURCHASE_CATEGORY	Purchase Category Dimension	This table stores the purchase categories.
163	DIM_QUOTE_DECLINATION_TYPE	Quotes Declination Type Dimension	This table stores the Quote declinations types. Examples of the Quote Declinations are Rates too high, Billing Plan, Fraud and Bankruptcy, Uninsurable Risks, Age of Building, and so on.
164	DIM_QUOTE_SOURCE	Quote Source Dimension	This table stores the description of the source of the quote. For example: Producing Agency, Producing Agent, Customer, and so on.
165	DIM_QUOTE_SOURCE_METHOD	Quote Source Method Dimension	This table stores the description of the source method of Quotes. For example: Turbo rater, quick quote, and so on.
166	DIM_QUOTE_SUBMISSION_METHOD	Quote Submission Method Dimension	This table stores the different methods the insurance company receives the Quote. Examples of the quote submission method are mail, fax, internet, and so on.
167	DIM_RATE_PLAN	Rate Plan Dimension	This table stores the Rate Plan that is the base rate, algorithm, and factors filed with a governing body by which a policy premium is determined.
168	DIM_RECOVERY_AGENT	Recovery Agent Dimension	This table stores the details of recovery agents, who recover the amount from delinquent accounts.

Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
169	DIM_RECOVERY_TYPE	Recovery Type Dimension	This table stores the values of the nature of recovery done by the insurance company. The values can be Multiple, Salvage, Subrogation, Deductible, Fraud, Litigation, Others, Reinsurance, Excess Recovery, and None.
170	DIM_REGION	Region Dimension	This entity stores a list of geographic regions where campaigns are targeted.
171	DIM_REINSURANCE_RISK_TYPE	Reinsurance Risk Type Dimension	This table stores the list of all reinsurance risk types.
172	DIM_REJECTION_REASON	Rejection Reason Dimension	This entity stores all the rejection reasons given by prospects for not buying a product or service.
173	DIM_REPORT_TYPE	Report Type Dimension	This table stores the list of report types supported by Market Risk Module: Var Report / Position Report.
174	DIM_REQUEST_TYPE	Request Type Dimension	This entity stores the various types of responses obtained from the campaign.
175	DIM_RESPONSE_TYPE	Response Type Dimension	This table stores the types of responses obtained during a campaign.
176	DIM_RESERVE_TYPE	Reserve Type Dimension	This entity stores the Reserve type, further classified into Specific Reserves, SOP 03-3 Reserves, Commercial Pool Reserves, Consumer Reserves, and Qualitative Factor Reserves. The Reserve is an exposure level attribute and an exposure can have a Reserve that can be classified into any one of the above classifications.
177	DIM_RETENTION_OFFER_TYPE	Retention Offer Type Dimension	This table stores the list of retention offer types.
178	DIM_RISK_ITEM	Risk Item Dimension	This table stores the insurable objects that are considered as Risk items. Examples include Building, vehicles, animals, property, engine, aircraft, and so on.
179	DIM_SALES_REPRESENTATIVE	Sales Representative Dimension	This table stores the list of sales representatives.
180	DIM_SALES_STAGE	Sales Stage Dimension	This entity stores a list of stages in an opportunity life cycle.
181	DIM_SEC_POOL_MASTER	Securitisation Pool Master Dimension	This table stores the details of the securitization pool.
182	DIM_SEC_POOL_TYPE	Securitisation Pool Type Dimension	This table stores the various securitization pool types.
183	DIM_SEC_PROGRAM	Securitization Program Dimension	This entity stores the details of the securitization program type.
184	DIM_SERVICED_LOAN_ACCOUNT	Serviced Loan Account Dimension	This table stores the account summary. However, only for those accounts which bank holds only for servicing purposes. These accounts can or cannot be originated by the bank.

Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
185	DIM_SERVICE_CHARGE	Service Charge Dimension	This table stores the list of service charge codes applicable to the various transaction product processors.
186	DIM_SERVICE_REPRESENTATIVE	Service Representative Dimension	This table stores the list of service representatives.
187	DIM_SERVICE_SLIPPAGE_REASON	Service Slippage Reason Dimension	This table stores the different service slippage reason codes.
188	DIM_SOCIAL_MEDIA	Social Media Dimension	This entity stores the list of social media.
189	DIM_SOCIAL_MEDIA_POST	Social Media Post Dimension	This entity stores the message, video, and so on about the product, brand, and so on posted over social media.
190	DIM_SRC_SYSTEM	Source System Dimension	This table stores the details regarding the various source systems which are used for sourcing data for Basel II Calculation and Reporting.
191	DIM_STOCK_INDEX	Equity Or Index Dimension	This table stores the list of stocks and indices.
192	DIM_STOCK_TICKER	Stock Ticker Dimension	This table stores the list of ticker symbol that is used to uniquely identify a publicly traded equity or commodity on an exchange.
193	DIM_SUB_NETTING_AGREEMENT	Sub Netting Agreement Dimension	This table stores the details of the Sub Netting Agreement. Sub Netting happens within a broader netting agreement covering either geography, markets (int, fx, and so on).
194	DIM_SURVEY	Survey Dimension	This entity stores the master list of surveys conducted for the service request and other purposes.
195	DIM_TERMINAL	Terminal Dimension	This table stores the terminal details.
196	DIM_TERMINAL_TYPE	Terminal Type Dimension	This table stores the master list of all terminal types: OWN / OTHERS
197	DIM_TIME_SPECIFIC_OBLIGATIONS	Time Specific Obligation Dimension Table	This table stores the list of the time-specific obligations that are settled within an intraday.
198	DIM_TRADING_DESK	Trading Desk Dimension	This entity stores the unique list of Trading Desk and the details of each Trading Desk.
199	DIM_TRANSACTION	Transaction Dimension	This entity stores the list of all transaction types that can be affected at any of the transaction channels of the bank.
200	DIM_TREATMENT	Treatment Dimension	This entity stores the treatment which is a channel-specific instance of an offer.
201	DIM_TXN_CHANNEL	Transaction Channel Dimension	This entity stores the list of all transaction channels offered by the bank to its customers.
202	DIM_TXN_FAILURE_REASON	Txn Failure Reason Dimension	This master list stores the possible reasons for transaction failure.

Sl. No.	List of Dimension Tables	Table/Entity Logical Names	Table/Entity Descriptions
203	DIM_TXN_STATUS	Transaction Status Dimension	This table stores the master list of all possible transaction status: Successful / Unsuccessful.
204	DIM_UNDERLYING	Underlying Dimension	This table stores the underlying information for Derivatives products. This table caters to derivatives underlying which in case of instrument underlying, underlying code will be the same as instrument code and in case of the contract underlying (for products like swaption) underlying code will be unique generated code.
205	DIM_UNDERWRITER	Underwriter Dimension	This table stores the underwriter details.
206	DIM_UNDERWRITING_MODEL_TYPE	Dimension Underwriting Model Type	This table stores a list of all types of underwriting model types.
207	DIM_VEHICLE	Vehicle Dimension	This table stores the vehicle details that are involved/attached to policies and claims.
208	DIM_VEHICLE_TYPE	Vehicle Type Dimension	This table stores the vehicle types. For example: SUV, Car, Truck, and so on.
209	DIM_VENDOR	Vendor Dimension	This entity stores the information of the vendors who are associated with the campaign. A campaign can also be launched/executed through a Vendor.
210	DIM_VINTAGE	Vintage Dimension	This table stores the building vintage dimensions in credit risk analytics. Vintage codes are Year + Month combination.
211	DIM_WATCHLIST	Watch List Dimension	The Watch List table provides a repository for the risk and trust lists used for monitoring transactional or trading activities. This is summary-level information about the list itself and does not define list membership. Examples of money laundering-related list sources include OFAC, Suspicious Activity Reporting (SAR), and FATF.
212	DIM_WAVE	Wave Dimension	This entity stores the different waves which are used for the execution of a campaign. Waves are a method of phasing the delivery of a campaign or stage over time
213	DIM_WRITE_OFF_REASONS	Write-Off Reasons Dimension	This table stores the master list of reasons based on which the contracts are written-off from the books.
214	DIM_GENDER	Gender Dimension	This entity stores the gender information of the customer.

#### 4.1.15 Fact Tables/Entities

For all tables with data flow type tagged as a Processing, it is recommended that you map data directly to the result area if processing application is not part of the OFSAA product suite. For example, Basel computations, RWA Numbers, and Capital Ratio are taken from the processing area which is populated by OFSAA or other Basel applications.



For processed tables, you can look for the following options:

- OFSAA Data Integration Hub (DIH) product
- Flat File
- Table-to-Table Transformation with the source being processing application

**Table 6: Fact Tables/Entities**

Sl. No.	List of Fact Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
1	FCT_ACCOUNT_MITIGANT_MAP	Fact Account Mitigant Map	This entity stores the account for mitigant mapping. It supports more than one mitigant to be mapped to an account.	Staging
2	FCT_ACCT_RECOVERY_DETAILS	Fact Account Recovery Details	This entity stores the details of recoveries for each account.	Staging
3	FCT_ACCT_WRITE_OFF_DETAILS	Fact Account Write Off Details	This entity stores the details of the write-off for each account.	Staging
4	FCT_CARDS_SUMMARY	Fact Cards Summary	This table stores the contract summary of all active card accounts.	Staging, Results
5	FCT_COMMON_ACCOUNT_SUMMARY	Fact Common Account Summary	This table stores common account level information that usually comes as input through staging.	Staging
6	FCT_CREDIT_LINE	Fact Credit Facility	This table stores the credit facility data. The credit facility is a committed line of credit given to a customer who can have multiple draws/exposures out of a given credit line.	Staging, Results
7	FCT_LOAN_ACCOUNT_SUMMARY	Fact Loan Summary	This table stores the details of loans. This table includes mortgage and vehicle loans.	Staging, Results
8	FCT_MITIGANTS	Fact Mitigants	This entity stores all the Mitigants and their details.	Staging
9	FCT_RECOVERY	Fact Recovery	This table stores the recovery details for all delinquent accounts.	Staging
10	FCT_REG_CAP_ACCOUNT_SUMMARY	Fact Regulatory Capital Account Summary	This table stores the regulatory capital for each account. Typically, this table is input from the Basel application.	Results

Sl. No.	List of Fact Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
11	FCT_PARTY_FINANCIAL_DETAIL	Fact Party Financial Detail	This entity stores the financial information (Balance-Sheet, Profit and Loss Statement, and Ratios) in the base and reporting currency of the parties like Customer and Guarantor.	Staging
12	FCT_PARTY_FINANCIALS	Fact Party Financials	This entity stores the financial information (Balance-Sheet, Profit and Loss Statement, and Ratios) of the parties like Customer and Guarantor. The balance sheet is prepared as of a particular date (Balance sheet creation date).	Staging
13	FCT_PARTY_RATING_DETAILS	Fact Party Rating Details	This table stores the party rating details of the customer, counterparty, guarantor, and so on.	Staging
14	FCT_IFRS_ACCOUNT_SUMMARY	Fact IFRS Account Summary	This table stores the measures related to an account that is computed by IFRS application.	Processing
15	FCT_ACCOUNT_POSITION_PAIR	Fact Account Position Pair	This table defines position pairings that relate to a primary position and its offsetting position. The position pairs can be held in any manner (for example, cash or margin). It contains only active customer account positions.	Staging
16	FCT_ACCT_CUST_DETAILS	Fact LRM Account Customer Relationship Details	This entity stores the derived attribute at the account and customer granularity (includes joint accounts).	Staging
17	FCT_ACCT_PLACED_COLL_MAP	Fact Account Placed Collateral Map	This table stores the account to placed collateral mapping. It is an intersection table to denote a placed collateral that can be used in multiple accounts and an account contains multiple collaterals.	Staging

Sl. No.	List of Fact Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
18	FCT_COLL_PORTFOLIO_MTM_DETAILS	Fact MTM Collateral Details	This table stores the MTM impact on derivative positions on a day-to-day basis.	Processing
19	FCT_COLL_PORTFOLIO_MTM_SUMMARY	Fact MTM Collateral Summary	This table stores the MTM impact on derivative positions at a cumulative level.	Processing
20	FCT_DEPOSITS_BORROWINGS	Deposits And Borrowings	This table stores all the deposit and other borrowings account of the bank.	Staging, Results
21	FCT_IFRS_MITIGANTS_SUMMARY	Fact IFRS Mitigants Summary	This table stores the valuation of Mitigants as per IFRS requirements. Mitigant definitions happen in DIM MITIGANT and this table serves as an additional set of attributes for FACT MITIGANTS.	Processing
22	FCT_IFRS_PLACED_COLLATERAL	Fact IFRS Placed Collateral	This table stores the valuation of placed Collateral as per IFRS requirements. Placed Collateral definitions happen in DIM PLACED COLLATERAL and this table serves as an additional set of attributes for FACT PLACED COLLATERAL.	Processing
23	FCT_LRM_ACCOUNT_SUMMARY	Fact LRM Account Summary	This table stores the details of the Account Derived in Liquidity Risk Management Solution.	Processing
24	FCT_LRM_PLACED_COLLATERAL	Fact LRM Placed Collateral	This table stores the liquidity specific proceeded attributes for placed Collateral as per Liquidity Risk regulations. Placed Collateral definitions happen in DIM PLACED COLLATERAL and this table serves as an additional set of attributes for FACT PLACED COLLATERAL.	Processing

Sl. No.	List of Fact Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
25	FCT_MGMT_REPORTING	Fact Management Reporting	This table stores the management reporting data related to organization and product profitability/income statement/balance sheet.	Processing
26	FCT_PLACED_COLLATERAL	Fact Placed Collateral	This table stores the details of collateral that are placed against an account.	Staging
27	FCT_RATING_DWNGRD_COLL_SUMMARY	Fact Rating Downgrade Collateral Summary	This entity stores the details regarding the loss of Re-hypothecation Rights due to a downgrade for a placed collateral.	Processing
28	FCT_RATING_DWNGRD_MTGNT_SUMM	Fact Rating Downgrade Mitigant Summary	This entity stores the details regarding the loss of Re-hypothecation Rights due to a downgrade for a mitigant.	Processing
29	FCT_REG_ACCOUNT_SUMMARY	Fact Regulatory Account Summary	This table stores the regulatory reclassifications and other information as required for regulatory reporting.	Results
30	FCT_LEGAL_ENTITY_DETAILS	Fact Legal Entity Details	This table stores the details of the legal entity.	Staging
31	FCT_REG_AGG_CASH_FLOWS	Fact Regulatory Aggregated Cash Flows	This entity stores the aggregated cash flows for regulatory reporting purposes.	Results
32	FCT_REG_CUSTOMER_SUMMARY	Fact Regulatory Customer Summary	This table stores the details at a customer level.	Results
33	FCT_REG_GL_CASH_FLOWS	Fact Regulatory General Ledger Cash Flows	This table stores the cash flow details of general ledger accounts for regulatory reporting requirements.	Results
34	FCT_REG_MITIGANTS_SUMMARY	Fact Regulatory Mitigants Summary	This table stores the cash flow groups required for FR2052A reporting.	Results
35	FCT_REG_PLACED_COLLATERAL	Fact Regulatory Placed Collateral	This table stores the cash flow groups required for FR2052A reporting.	Results
36	FCT_REG_RUN_LEGAL_ENTITY_MAP	Fact Regulatory Legal Entity Run Map	This table stores the reporting entity identifier for every regulatory reporting run.	Results

Sl. No.	List of Fact Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
37	FCT_SUBST_PLACED_COLLATERAL	Fact Substitutable Collateral	This entity stores the details of collateral which has to be substituted.	Processing
38	FCT_SUBSTITUTABLE_MITIGANTS	Fact Substitutable Mitigants	This entity stores the details of a mitigant which has to be substituted.	Processing
39	FCT_TRANSACTION_SUMMARY	Fact Transaction Summary	This table stores the transaction summary.	Results
40	FCT_TRD_ACCOUNT_TXN_SUMMARY	Fact Trading Account Transaction Summary	This entity stores all Fact Trading Account Transaction details.	Results
41	FCT_FIXED_ASSETS	Fact Fixed Assets	This table stores measures pertaining to assets. Fixed assets are physical assets such as Buildings, Land, Machinery, Automobiles, Gold bullion, and so on. They can be sold and appropriate profit/loss can be recognized based on appropriate accounting principles.	Staging
42	FCT_LLFP_ACCOUNT_SUMMARY	Fact Loan Loss Forecasting And Provision Account Summary	This entity stores loan loss forecasting and provision account summary. Typically this table is an input from loan loss forecasting and provision (LLFP) application.	Processing
43	FCT_REG_ACCT_MITIGANT_MAPPING	Fact Regulatory Account Mitigant Mapping	This table stores the account mitigant mapping information.	Results
44	FCT_CR_CUSTOMER_SUMMARY	Fact Credit Risk Customer Summary	This entity stores the details of various measures pertaining to the customer.	Staging
45	FCT_ASSETS_SOLD	Fact Assets Sold	This table stores the data of assets sold over a period of time. For example, banks sell loans to other parties.	Staging
46	FCT_ENTITY_INFO	Fact Entity Information	This entity stores information about the various entities in the Organization Structure of the Financial Institution.	Staging

Sl. No.	List of Fact Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
47	FCT_FIDUCIARY_SERV_INVST_SUMM	Fact Fiduciary Services Investment Summary	This entity stores the details of investments done through a fiduciary account.	Staging`
48	FCT_MERCHANT_BANKING	Fact Merchant Banking	This entity stores the details of issues associated with a fiduciary account.	Staging
49	FCT_MITIGANT_REG_CAPITAL	Fact Mitigant Regulatory Capital	This table stores the regulatory capital information related to mitigants.	Processing
50	FCT_REG_TRANSACTION_SUMMARY	Fact Regulatory Transaction Summary	This table stores the summary of regulatory transactions. For example, the number of securities sold or transferred from HTM to AFS.	Results
51	FCT_SECURITIZATION_POOL	Fact Securitization Pool	This table stores the information on the securitization pool.	Processing
52	FCT_SEC_EXPOSURES	Fact Securitization Exposures	This entity stores all the Securitization Exposures for Basel II processing.	Processing
54	FCT_INSTR_PROPOSED_TXNS	Fact Instrument Proposed Transactions	This table stores the proposed set of instruments that are transacted by the Financial Institution.	Staging
55	FCT_NON_SEC_EXPOSURES	Fact Non Securitization Exposures	This entity stores all the Securitization Exposures.	Processing
56	FCT_NETTABLE_POOL	Fact Nettable Pool	This entity stores all Pools created for Netting.	Processing
57	FCT_PAYMENTS_SUMMARY	Fact Payment Summary	This entity stores the payment value, Receipt or inward value and Netted (payment and receipts) value aggregated at currency level in natural currency and reporting currency.	Results
58	FCT_CAP_INSTR_POSITIONS	Fact Capital Instrument Positions	This entity stores the regulatory position of capital instruments and details of treatment to the capital instruments under Basel I and III regulations.	Staging

Sl. No.	List of Fact Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
59	FCT_REG_EXP_MITIGANT_MAPPING	Fact Regulatory Exposure Mitigant Mapping	This table is planned for deprecation.	Processing
60	FCT_CP_CREDIT_QUALITY_SUMMARY	Fact Counterparty Credit Quality Summary	This table stores the output of CVA calculation done for a given counterparty.	Processing
61	FCT_MORT_SERV_RIGHTS	Fact Mortgage Servicing Rights	This table stores the Mortgage Servicing Rights valuation information. Mortgage Servicing Rights values are typically book value, fair value, and so on.	Processing
62	FCT_REG_LE_CAPITAL_SUMMARY	Fact Regulatory Legal Entity Capital Summary	This table stores the regulatory capital-related information for the legal entity. This table stores all information from the GL related to the capital structure processing and the various levels of capital computations processed and computed by the application. This stores information at the granularity of the capital line item, for each capital component group. Some of the line items stored are Tier 1 Capital, Tier 2 Capital, Total Capital, and Capital Ratio.	Results
63	FCT_REG_CP_CAPITAL_SUMMARY	Fact Regulatory Counterparty Capital Summary	This table stores all the regulatory capital-related information of a counterparty. Some of the risk parameters in this table are the probability of default and internal and external rating for the counterparty. This table is generally used for CVA and default fund calculations.	Processing

Sl. No.	List of Fact Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
64	FCT_REG_CAP_PLCD_COLL_ SUMMARY	Fact Regulatory Capital Placed Collateral Summary	This table stores the information of all exposures to a bank which is placed collateral. The placed collateral by the bank is for default fund contribution or for other OTC transactions, with a central counterparty. It is generally used for cleared transactions and default fund contributions.	Processing
65	FCT_REG_CAP_POOL_ SUMMARY	Fact Regulatory Capital Pool Summary	This table stores the information of all exposures to a bank, which are at a pool level. Some of the pool identified for this table are OTC nettable pool and retail pools. This table stores the regulatory capital information related to these pools.	Processing
66	FCT_LOANS_SERVICED	Fact Loans Serviced	This table stores the details of loans serviced by the bank. They may or may not be originated by the bank.	Staging
67	FCT_FUND_CIS_COMPOSITION	Fact Fund CIS Composition	This entity stores the composition of the investment funds.	Staging
68	FCT_CAP_INSTR_TXNS	Fact Capital Instrument Transactions	This entity stores the transactions on the capital instruments.	Staging
69	FCT_CREDITRISK_ACCOUNT_ SUMMARY	Fact Credit Risk Account Summary	This entity stores the different measures of exposures pertaining to Credit Risk Analytics.	Processing



Sl. No.	List of Fact Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
70	FCT_LIQUIDITY_REPORTING	Fact Liquidity Reporting	This entity stores the measure to be reported for each of the Liquidity Reporting lines. Reporting Measures are the amounts displayed in the standard template prescribed by the supervisor. For example, Reporting lines and measures mentioned in the QIS Reporting Template reporting lines, reporting lines and measures mentioned in "Instructions for completing and submitting the Liquidity Monitoring Tool (4-G) template.	Processing
71	FCT_LIQUIDITY_REP_LINE_COMMENT	Fact Liquidity Reporting Line Comments	This entity stores the comments for each of the Liquidity Reporting line. Reporting Lines are the standard template reporting lines prescribed by the supervisor. For example, Reporting lines mentioned in QIS Reporting Template reporting lines, reporting lines mentioned in "Instructions for completing and submitting the Liquidity Monitoring Tool (4-G) template.	Processing
72	FCT_REG_EQ_INV_SUMMARY	Regulatory Equity Investment Summary	This table stores the summary of equity investments done by an entity as per regulatory equity investment types.	Results
73	FCT_OTTI_FV_PROJECTIONS	Fact Other Than Temporary Impairment Fair Value Projections	This table store the assumptions to determine criteria and value for Other-than-temporary impairment for product investment.	Processing
74	FCT_OPSRISK_LOSS_PROJECTION	Fact Operational Risk Loss Projection	This table stores the projection of operational losses across required measurement units and periods for a given operational loss data category.	Processing

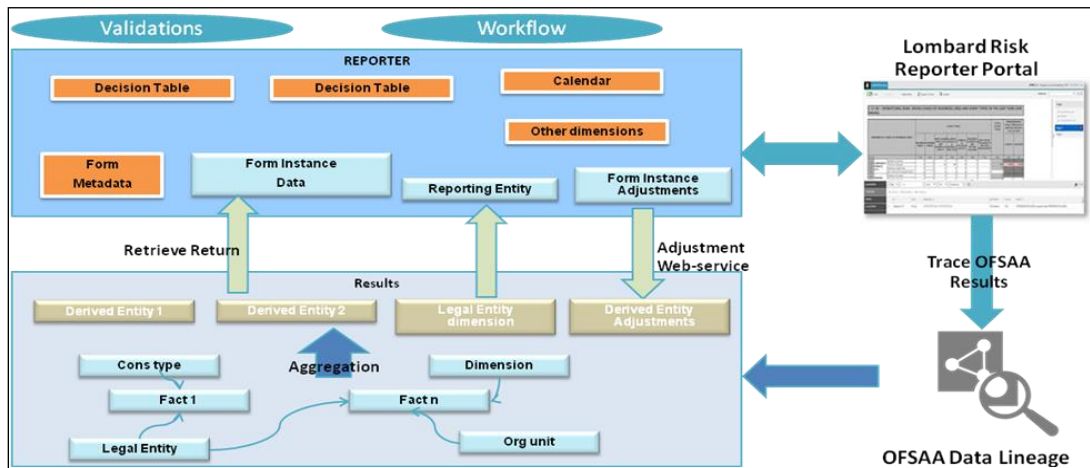
Sl. No.	List of Fact Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
75	FCT_OTTI_FV_ASSUMPTIONS	Fact Other Than Temporary Impairment Fair Value Assumptions	This table stores the assumptions to determine criteria and value for Other-than-temporary impairment for product investment.	Processing
76	FCT_SCEN_VARIABLE_PROJECTION	Fact Scenario Variable Summary	This table stores the projection of various variables for Enterprise Stress Testing or any other similar usage.	Processing
77	FCT_CAP_INSTR_PROPOSED_REDEEM	Fact Capital Instrument Proposed Redemption	This entity stores the proposed set of capital instruments that are redeemed or converted by the Financial Institution.	Staging
78	FCT_CAP_INSTR_PROPOSED_ISSUES	Fact Capital Instrument Proposed Issues	This entity stores the proposed set of capital instruments that are issued by the Financial Institution.	Staging
79	FCT_CARDS_BALANCE_SUMMARY	Fact Cards Balance Summary	This table stores the cards summary details of cards like EOP balance, interest rate, current payment, and others against the card balance category.	Staging
80	FCT_PFT_ACCOUNT_SUMMARY	Fact PFT Account Summary	This table stores the account level measures computed by the PFT application.	Processing
81	FCT_REGULATORY_PLANNED_ACTION	Fact Regulatory Planned Actions	This table stores the impact of Planned Actions on various measures like capital, RWA, exposure, and so on that are required for Basel III and Dodd-Frank schedule. Financial Institutions must capture all material planned actions, including, but not limited to, the roll-off or sale of an existing portfolio, the issuance of regulatory capital instruments and other strategic corporate actions.	Processing
82	FCT_REPORTING_GROUP_OUTPUT	Fact Reporting Group Output	This entity stores the outputs at the Reporting Group Level.	Processing

Sl. No.	List of Fact Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
83	FCT_STANDARD_ACCT_HEAD	Fact Standard Accounting Head	This table stores the data as per the standard accounting heads.	Processing
84	FCT_REG_CP_EXP_MTM_DTLS	Regulatory Counterparty Exposure Mitigant Summary	This table stores the MTM summary for a given counterparty and Netting agreement for business as usual and stressed scenarios.	Staging
85	FCT_CREDIT_PARTCPTN_TRNCH_MAP	Fact Credit Participation Tranche Map	This entity maps the participation of the various tranches.	Staging
86	FCT_ACCT_CREDIT_SCORE_DETAILS	Fact Account Credit Score Details	This entity stores the details of the credit score of account throughout its lifetime.	Staging
87	FCT_SERV_ACCT_CREDIT_SCOR_DTL	Fact Serviced Account Credit Score Details	This entity stores the details of the credit score of serviced accounts throughout its lifetime.	Staging
88	FCT_INSTRUMENT_PD_DETAILS	Fact Instrument Probability of Default Details	This table stores the probability of default values as of the given date for all relevant instruments.	Staging
89	FCT_PARTY_PD_DETAILS	Fact Party Probability of Default Details	This table stores the probability of default values as of the given date for all relevant parties.	Staging
90	FCT_REG_HEDGE_SUMMARY	Fact Regulatory Hedge Summary	This table stores a summary of hedged portfolio set which includes an effective and ineffective portion of gain and loss, hedged notion amount, IRC used, and so on.	Processing
91	FCT_HEDGE_PORTFL_SET_ACC_MAP	Fact Hedge Portfolio Set Account Map	This table stores the unique hedge identification providing a summary of accounts that are "Hedged" and instrument which is used for "Hedging".	Staging

Sl. No.	List of Fact Tables	Table/Entity Logical Names	Table/Entity Descriptions	Data Flow Type
92	FCT_REG_LE_CAPITAL_SUMMARY	Fact Regulatory Legal Entity Capital Summary	This table stores the regulatory capital-related information for the legal entity. This table stores all information from the GL related to the capital structure processing as well as the various levels of capital computations processed and computed by the application. This stores information at the granularity of the capital line item, for each capital component group. Some of the line items stored are Tier 1 Capital, Tier 2 Capital, Total Capital, Capital Ratio	Processing

## 4.2 Mapping of Line Items to Reporting Requirements of Lombard Risk

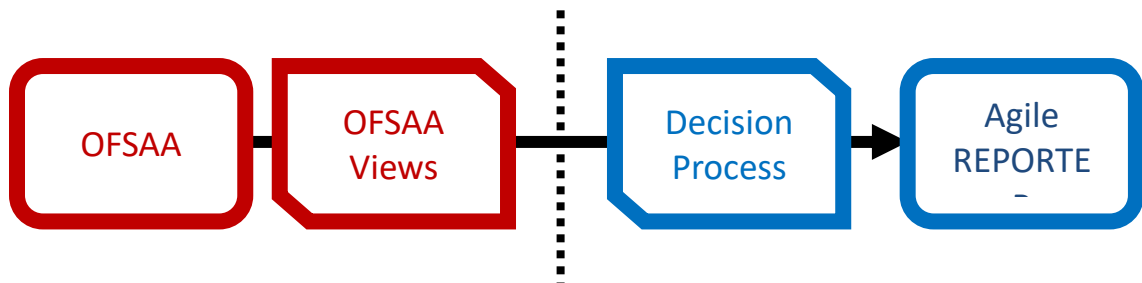
Figure 21 explains the flow of data between OFSAA and AgileREPORTER.



**Figure 21: Data Flow between OFSAA and AgileREPORTER**

OFSAA provides the data to AgileREPORTER in the form of derived entities. The derived entity is an existing OFSAA higher-order metadata object and can be physicalized as a materialized view in the database. Derived entities store aggregated data from base fact entities specified in the dataset and have the necessary dimensions and measures. Dimensional and measure combination stored within the derived entity is mapped to cells within the report. This mapping is maintained within the 'Dimensional mapping' template. 'Decision Process' within AgileREPORTER reads the derived entities

and dimension mapping information to derive the data for reporting. Derived entities are created based on measures, hierarchies, and datasets.



**Figure 22: Decision Process in AgileREPORTER**

Each regulatory report contains numerous schedules. Each schedule contains various cells that need to be reported. Each cell or box is uniquely identified by a cell reference (or box identifier). OFSAA and Lombard Risk provide a unique cell reference to the cell.

Each cell is mapped to a set of dimensions and measures within OFSAA. A group of cells within the schedule have similar mappings (such as the same dimensions but different member codes). Such groups are identified to create logical sections within the schedule. A derived entity is created for each of these logical sections within the schedule.

The dataset associated with the derived entity provides data for the specific derived entity. Data such as measures, in a derived entity are aggregated based on dimensions that are included in the derived entity, even though the fact entities in the dataset contain complete details of the data.

Some of the cells in the schedule can be derived as per the logic provided by the regulator. Derivation could be an expression built using values from other cells. Examples of derivation are ratio, node-level rollup, a direct reference to cells in other schedules within the report. These derivations are performed within the Lombard Risk Reporter portal. OFSAA provides data only for the cells that are not derived.

The “Decision Process” within Lombard Risk Reporter Portal uses the dimension mapping template to interpret data present in the derived entity. The decision process creates form data by reading the information from the derived entity, and derives the necessary data that will be used by the Lombard Risk Reporter Portal to display report data.

Refer to the excel sheet for the list of [Reporting Lines](#) used across all the RBI returns.

#### NOTE

Metadata for data transformation is available as part of the data warehouse configuration pack provided Out-of-Box / pre-configured from OFSAA. You need not perform any mapping for the reports. However, this information can be useful for maintenance or extensions when Out-of-Box pack is not available.

## 4.3 Mapping Metadata

The list of reports with the corresponding Mapping Metadata Information is present in the [Hierarchy Measure Linkages](#) document present in [My Oracle Support](#) page.

## 4.4 AgileREPORTER: Submission

The AgileREPORTER is a web-based regulatory reporting tool provided by Lombard Risk. It provides necessary features to address e-filing workflow, validation and submission process, and supports reports (called as forms/returns) for various jurisdictions. AgileREPORTER provides a reliable and efficient infrastructure to compile, generate, and submit regulatory reports.

Lombard Risk Reporter portal stores data related to forms/returns in its schema. Lombard Risk application supports the loading of data into its schema in the following ways:

- **Cell References File hand-off:** It is used when data providers compute all the information required for reports and pass the data that is required for each cell in the report.
- **Base Data hand-off:** It is used when data providers pass base data to the Lombard Risk application and expect computations that are required for each cell to be performed within the Lombard Risk application.

However, the Lombard Risk Reporter portal supports dimensional mapping-based approaches for OFSAA. In this approach, data hand-off is based on dimensions and measures similar to the pattern of information storage in OFSAA. Decision table mapping process within the Lombard Risk Reporter portal maps dimensions and measures to cell references.

### 4.4.1 Decision Process

The decision process is a component within the Lombard Risk Reporter portal that processes each row of the derived entity for the criteria specified in the decision table to derive cell references and data that will be used to display on the face of returns.

The decision process is triggered within the reporter portal after OFSAA establishes data readiness for reporting. This indicates that data in fact entities, pass all the necessary data quality checks and the derived entities are refreshed for the latest AS OF DATE and final reporting run.

The decision process can be triggered in batch mode and can be scheduled to run in an Enterprise Scheduler. Alternatively, the decision process can also be triggered in the ad-hoc mode for a specific report.

## 5 OFSAA Features

Regulatory Reporting (REG REP) Solution configures the data hand-off structure to Lombard using metadata. The following sections provide details on datasets, measures, hierarchies, and Derived Entities. Multiple derived entities are linked to a specific regulatory schedule. You can modify the configuration using the OFSAA infrastructure. Additionally, the metadata route provides traceability from reporting elements to the data elements used.

This chapter provides an understanding of the AAI components used in the solution and dimensional mapping. It includes:

- [OFSAA Infrastructure](#)
- [Business Metadata](#)
- [Derived Entity](#)
- [Rules Run Framework Features](#)
- [Dimension Mapping](#)

### 5.1 OFSAA Infrastructure

OFSAA Infrastructure includes the facilities for creating and maintaining dimensional reference data, interest rate, and currency exchange rate data, and process tuning data. Additionally, OFSAA Infrastructure includes functionality for building and maintaining rules that can be used by any Oracle Financial Services Analytical Application. These common rule objects include:

1. Expressions
2. Hierarchies
3. Filters

The analytical applications that you see on the Left Hand Side (LHS) of the Financial Services Applications home page depending on your logon privileges and on the OFSAA modules that are installed for your environment.

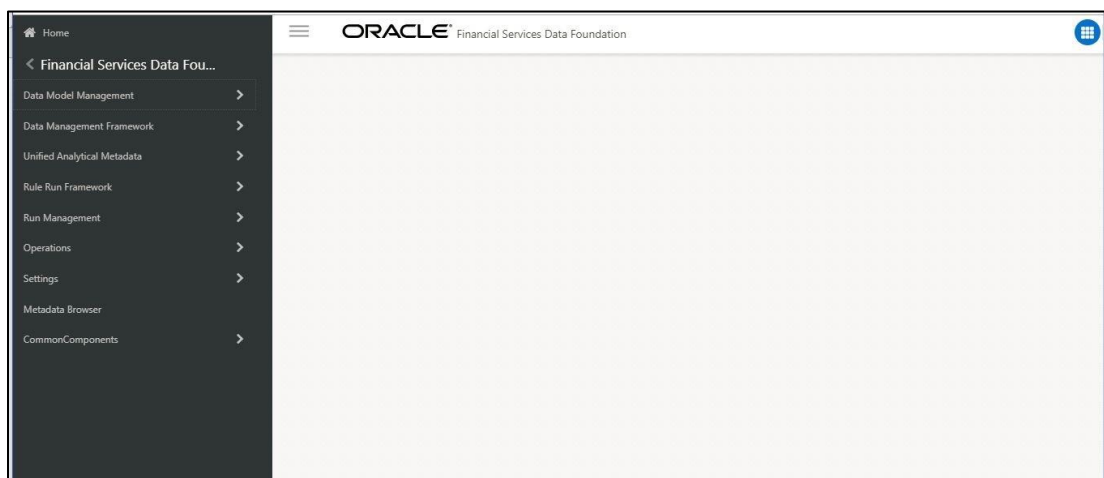


Figure 23: Landing Page

## 5.2 Business Metadata

In addition to Derived Entity, REG REP uses the following OFSAA features to create the business metadata. For details on the features, refer to [OFS Analytical Applications Infrastructure User Guide](#) in the [OHC](#) documentation library.

- **Hierarchies:** Some OFSAA dimensions support hierarchies. Hierarchies can be used to provide sophisticated stratification for either processing or reporting purposes. For example, an organizational hierarchy can start with a Division level containing Western Region, Eastern Region, and Southern Region; the next level down within the hierarchy can be state or county. A product hierarchy can begin with branches for Asset vs. Liability vs. Service products; under the Asset branch, you can define additional branches for Mortgage Lending, Commercial Lending, Consumer Lending, and so on.
- **Measures:** Business Measure refers to a uniquely named data element of relevance that can be used to define views within the data warehouse. It typically implies aggregated information as opposed to information at a detailed granular level that is available before adequate transformations.
- **Business Processor:** It refers to a uniquely named data element of relevance that can be used to define views within the data warehouse. It typically implies aggregated information as opposed to information at a detailed granular level that is available before adequate transformations.
- **Datasets:** It refers to a group of tables whose inter-relationship is defined by specifying a join condition between the various tables. It is a basic building block to create a query and execute a data warehouse for a large number of functions and to generate reports.

## 5.3 Derived Entity

It is the primary component of OFSAA used for OFSDF Interface with Lombard Risk for RBI Regulatory Reporting Solution uses Derived Entity to create a physical materialized view which is then queried by Lombard using pre-set data hand-off templates. An Entity refers to a table in which data is stored. Derived Entity within the infrastructure system facilitates you to define entities that are populated through a series of data transformation processes resulting from an existing Data Set or a Source Application. An Entity can be used to define other Business Metadata such as measures, hierarchies, dimensions, data sets, and cubes.

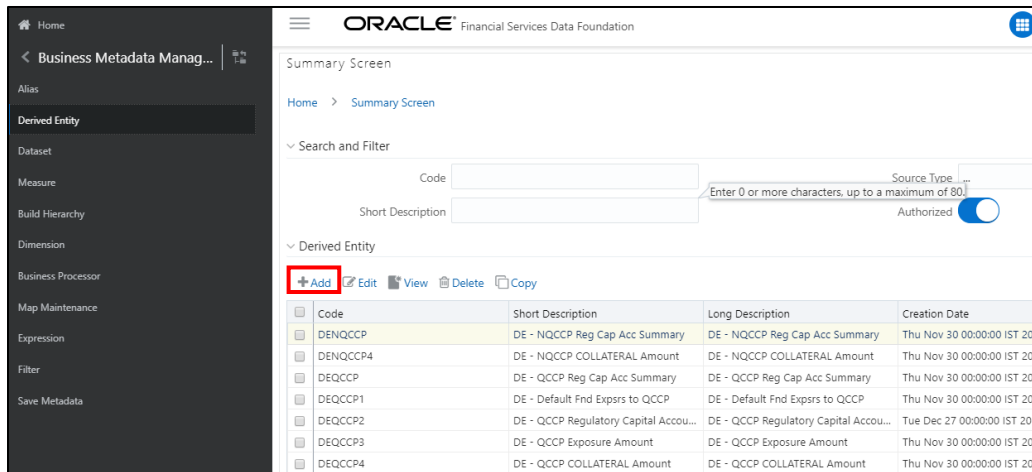
Derived Entities comprise the following:

- Measures
- Hierarchies
- Datasets

Ensure to define the above components within OFSAA before configuring the derived entity, and select Materialized View property in Derived Entity. This property creates the derived entity as materialized views.

1. Navigate to path **Financial Services Data Foundation → Unified Analytics Metadata → Business Metadata Management → Derived Entity**. The existing derived entities summary screen is displayed. You can add a new derived entity and Edit, View, Delete, or Copy an existing derived entity.





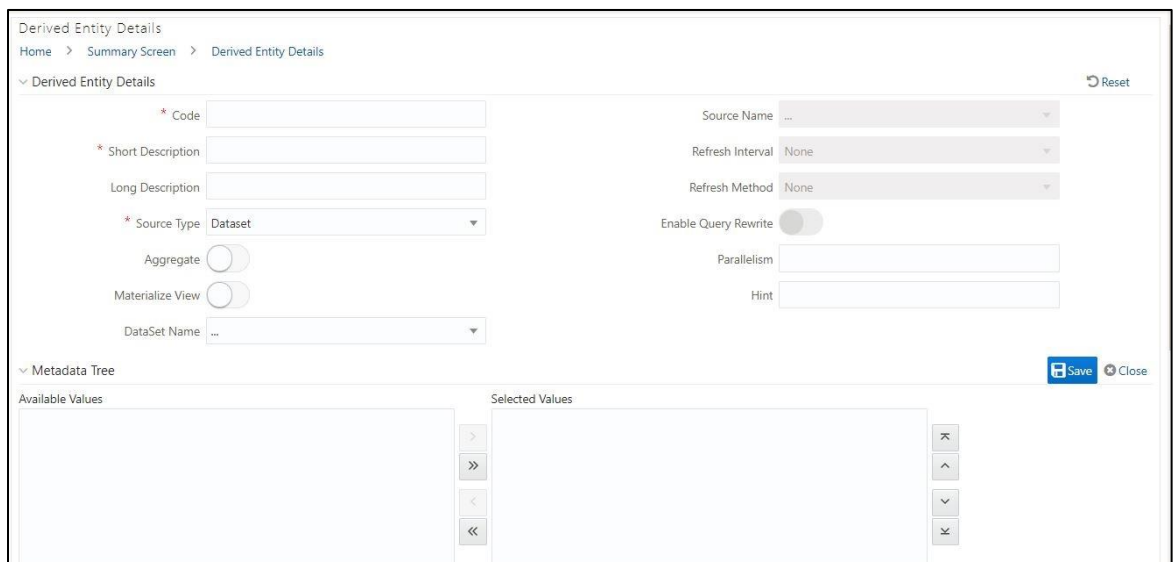
**Figure 24: Derived Entity User Interface**

Derived Entities must have AS\_OF\_DATE and LEGAL\_ENTITY as the mandatory dimensions. The rest of the structure of the derived entity can vary depending on the dimensions present. A metadata configuration table is present in AgileREPORTER to link the name of the column in the derived entity and dimension that is referred to in the dimension mapping process.

Derived entities have data for the 'Final Reporting Run' only, which is reported to the Regulatory, and are refreshed for the latest hand-off date.

A metadata configuration table is maintained within AgileREPORTER to capture the derived entities that supply data for each schedule.

1. Click the **Add** button to create a new Derived Entity.



**Figure 25: Derived Entity User Interface**

## 5.3.1 Creating Derived Entity

Derived Entities must have Code, Short Description and Source Type mandatory dimensions as shown in Figure 25. The rest of the structure of the derived entity can vary depending on the dimensions present. A metadata configuration table is present in AgileREPORTER to link the name of the column in the derived entity and dimension that is referred to in the dimension mapping process.

Derived entities have data for the 'Final Reporting Run' only, which is reported to the Regulatory, and are refreshed for the latest hand-off date.

A metadata configuration table is maintained within AgileREPORTER to capture the derived entities that supply data for each schedule.

Refer to *OFS Analytical Applications Infrastructure User Guide* in [\(OHC\)](#) documentation library for detailed steps on creating a derived entity.

## 5.3.2 Saving Derived Entities

After the server restart is complete, save all the derived entities manually using the OFSAAI User Interface (**Unified Analytical Metadata >> Business Metadata Management >> Derived Entity**).

### 5.3.2.1 Adjustments DE

Task No.	Derived Entity Code	Derived Entity Description
Task1	DEADJ001	DE - Regulatory Adjustments

The adjustments feature enables to adjust the differing values of the report systems. The Adjustments Derived Entity derives its values from the Adjustments Fact table (FCT\_REG\_REPORT\_ADJUSTMENTS) that specifies the adjustment value and the seeded table (DIM\_REG\_REPORT\_CELL) that specifies the cell ID / MDRM Code and the Report Code to which the MDRM belongs to. This ensures that there can be direct adjustments made to MDRM(s) such that the values from both the derived entities are traceable and efficiently reported.

## 5.3.3 Refreshing Derived Entities

The complete Derived Entities can be refreshed as a whole or incrementally for selected time periods. Refer to [OFS DE INCREMENTAL MV REFRESH](#) in [\(OHC\)](#) documentation library for detailed steps to incrementally refresh derived entities.

### 5.3.3.1 Implementing the Adjustment Feature

Perform the following steps to implement the Adjustment feature:

1. Identify the Cell ID for the report and line item where an adjustment has to be implemented.

For example:

**Report:** DSBI ALE

**Line Item:** I.1 Cash on hand

**Cell ID:** RBIDSBIALEP001R0020C0020

The report currently displays a Total value = 69,337,000.00 for the identified cell as shown in the following figure. Now, the requirement is to adjust this amount to 69,338,000.00

Section 1: Assets and Liabilities						
Part-A: ASSETS (Amount Outstanding at end of Month)	Domestic Operations		Overseas Operations		Global Operations	
	Total	Of Which Held in Forex	Total	Of Which Held in Forex	Total	Of Which Held in Forex
I.Cash Funds	109,497,000.00	54,179,000.00	109,497,000.00	54,179,000.00	109,497,000.00	54,179,000.00
I.1 Cash on Hand	69,337,000.00	24,462,000.00	69,337,000.00	24,462,000.00	69,337,000.00	24,462,000.00
I.2 Balances/Deposits with RBI/central Banks	40,160,000.00	29,717,000.00	40,160,000.00	29,717,000.00	40,160,000.00	29,717,000.00

- FCT\_REG\_REPORT\_ADJUSTMENTS: This table must be populated with the requisite 'Adjustment Amount' and other related columns.

For example:

**N\_ADJUSTED\_AMT** - 1000

The corresponding N\_CELL\_KEY value must be picked from DIM\_REG\_REPORT\_CELL for the respective CELL\_ID.

Also, the following columns must be updated accordingly:

N\_ENTITY\_KEY,

N\_RUN\_KEY,

N\_MIS\_DATE\_KEY

- Execute the resave batch for Adjustments (<<INFODOM>>\_RBI\_ADJUSTMENT\_RESAVE), to save the Adjustment derived entity - DEADJ001.
- The retrieved report should reflect the amount after adjustments, as shown in the following figure.  $(69,337,000.00 + 10000) = 69,338,000.00$

**NOTE** The Adjustment amount can be negative and to achieve a subtracted amount.

Section 1: Assets and Liabilities						
Part-A: ASSETS (Amount Outstanding at end of Month)	Domestic Operations		Overseas Operations		Global Operations	
	Total	Of Which Held in Forex	Total	Of Which Held in Forex	Total	Of Which Held in Forex
I.Cash Funds	109,498,000.00	54,179,000.00	109,497,000.00	54,179,000.00	109,498,000.00	54,179,000.00
I.1 Cash on Hand	69,338,000.00	24,462,000.00	69,337,000.00	24,462,000.00	69,338,000.00	24,462,000.00
I.2 Balances/Deposits with RBI/central Banks	40,160,000.00	29,717,000.00	40,160,000.00	29,717,000.00	40,160,000.00	29,717,000.00

**NOTE** The Adjustment feature works only for fixed grid cells (Open Y cells are not supported).

## 5.3.4 Adding a Hint to a Derived Entity

Perform the following steps to add a Hint to a Derived Entity:

1. To add a Hint in a DE, perform the following steps:
  - a. Log in to OFSAA application GUI.
  - b. Navigate to **Financial Services Data Foundation > Unified Analytical Metadata > Business Metadata Management > Derived Entity**. The Summary Screen is displayed as follows.

Summary Screen

Home > Summary Screen

Search and Filter

Code:  Source Type: ...

Short Description:  Authorized:

Derived Entity

+ Add Edit View Delete Copy

Code	Short Description	Long Description	Creation Date	Source Type	Materialize View
DENQCCP	DE - NQCCP Reg Cap Acc Summary	DE - NQCCP Reg Cap Acc Summary	Thu Nov 30 00:00:00 IST 2017	Dataset	Yes
DENQCCP4	DE - NQCCP COLLATERAL Amount	DE - NQCCP COLLATERAL Amount	Thu Nov 30 00:00:00 IST 2017	Dataset	Yes
DEQCCP	DE - QCCP Reg Cap Acc Summary	DE - QCCP Reg Cap Acc Summary	Thu Nov 30 00:00:00 IST 2017	Dataset	Yes
DEQCCP1	DE - Default Fnd Expsrs to QCCP	DE - Default Fnd Expsrs to QCCP	Thu Nov 30 00:00:00 IST 2017	Dataset	Yes
DEQCCP2	DE - QCCP Regulatory Capital Accou...	DE - QCCP Regulatory Capital Accou...	Tue Dec 27 00:00:00 IST 2016	Dataset	Yes
DEQCCP3	DE - QCCP Exposure Amount	DE - QCCP Exposure Amount	Thu Nov 30 00:00:00 IST 2017	Dataset	Yes
DEQCCP4	DE - QCCP COLLATERAL Amount	DE - QCCP COLLATERAL Amount	Thu Nov 30 00:00:00 IST 2017	Dataset	Yes
DERBI001	DE- Counterparty Borrowings Rankw...	DE- Counterparty Borrowings Rankw...	Fri May 06 00:00:00 IST 2016	Dataset	Yes

- c. Enter the **DE Code** and click **Search**. The corresponding DE Code and details are displayed.

Summary Screen

Home > Summary Screen

Search and Filter

Code:  Source Type: ...

Short Description:  Authorized:

Derived Entity

+ Add Edit View Delete Copy

Code	Short Description	Long Description	Creation Date	Source Type	Materialize View
<input checked="" type="checkbox"/> DERBI001	DE- Counterparty Borrowings Ran...	DE- Counterparty Borrowings Ran...	Fri May 06 00:00:00 IST 2016	Dataset	Yes

Page 1 of 1 (1-1 of 1 items) | < > X

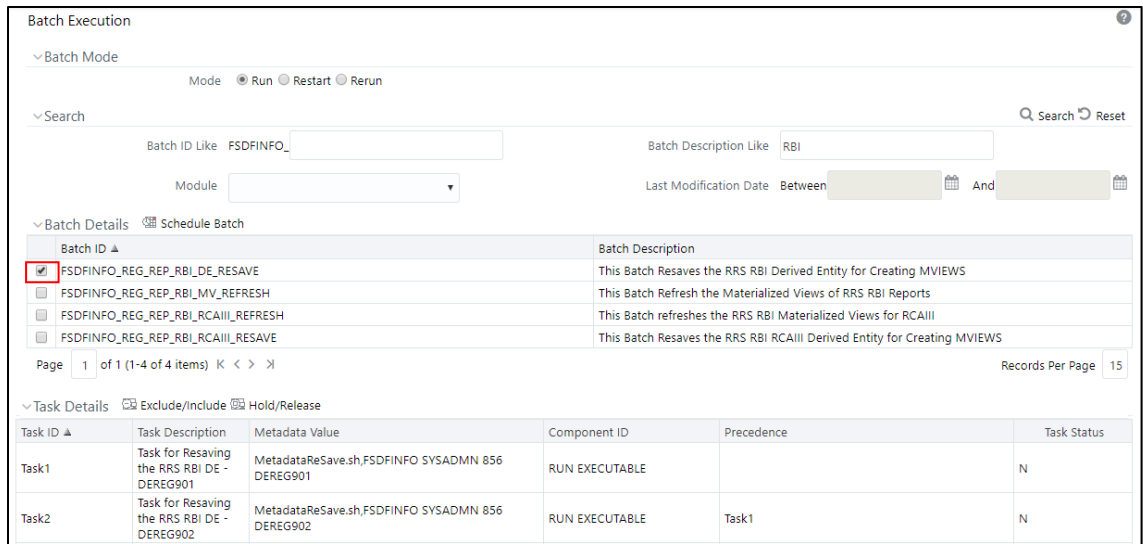
d. Select the **DE Code** and click **Edit**. The DE details are displayed.

e. Enter the **Hint** for the DE and click **Save**.

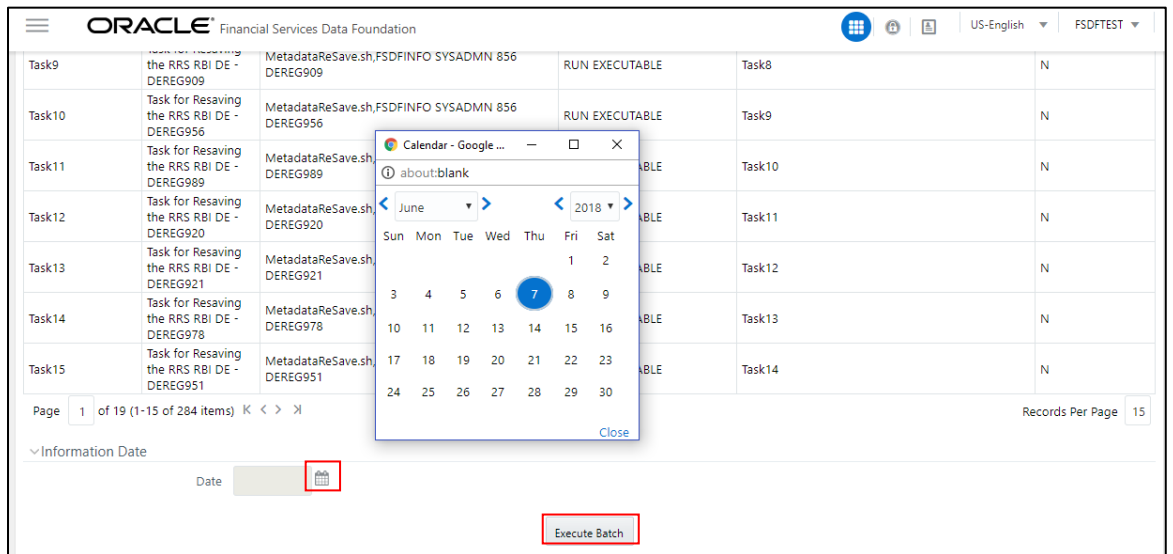
2. To execute the Hint added in the DE, perform the following steps:

a. Navigate to **Financial Services Data Foundation > Operations > Batch Execution**. The Batch Execution screen is displayed.

b. Enter the **Batch Description Like** and click **Search**.



c. Select the modified/ required DE for Batch Execution under the Batch Details.



d. Select the Date and click Execute Batch. After execution, the DDL reflects the Hint added to the DE.

### 5.3.5 User Roles

Following are the user roles for derived entity:

- Reporting Analyst: This user can create, modify, and delete a derived entity.
- Data Analyst: This user can view the derived entities.

## 5.4 Rules Run Framework Features

OFSDF Interface with Lombard Risk for RBI uses the following Rules Run Framework of OFSAA. For details on the features refer to OFS Analytical Applications Infrastructure User Guide in [OHC](#) documentation library.

- **Rules:** Financial institutions require constant monitoring and measurement of risk in order to conform to prevalent regulatory and supervisory standards. Such measurement often entails significant computations and validations with an organization's data. Data must be transformed to support such measurements and calculations. The data transformation is achieved through a set of defined Rules.
- REG REP uses Rules for reclassification of dimensions.
- **Process:** A set of Rules collectively form a Process. A Process definition is represented as a Process Tree. The Process option in the Rules Run Framework provides a framework that facilitates the definition and maintenance of a Process. By defining a Process, you can logically group a collection of Rules that pertain to a functional process.
- **Run:** The Run feature in the Rules Run Framework helps you to combine various components and/or processes together and execute them with different underlying approaches. Further, run conditions and/or job conditions can be specified while defining a run.

## 5.5 Dimension Mapping

Each cell reference is mapped to a set of dimensions and measures. This mapping is documented in excel and then converted to a Decision table through an offline utility provided by AgileREPORTER. A decision table is a metadata object within AgileREPORTER that stores the criteria for deriving value for each cell reference. The metadata is packaged for regulatory reports as part of the OFS Risk Regulatory Solution. The decision table process within AgileREPORTER reads the metadata and derived entity published by OFSAA to populate data required for returns for the specified date and legal entity.

The following table is an example of dimension mapping. Each cell reference is mapped to a set of dimension members and measures. If a dimension is left empty for a cell reference, it indicates that it is not participating in the mapping process. If there are multiple mappings for a cell reference, then the value of this cell can come from any of these criteria.

The decision mapping table is processed against the contents of the derived entity to reporting data. Each record of the derived entity is matched against the criteria specified in the decision table to identify the cell reference and derive return data (such as cell reference and cell value).

**Table 7: Dimension Mapping Example 1**

Cell References	Is Derived?	Standard Product Type Code	Bucket Category	Bucket Type	Measure
RBIIRSP022R0020C0020	No	Perpetual Cumulative Preference Shares	1 to 28 days	IR	Agg Outflow Amount
RBIIRSP022R0020C0030	No	Perpetual Cumulative Preference Shares	29 days to 3 months	IR	Agg Outflow Amount
RBIIRSP022R0020C0040	Yes				

Cell References	Is Derived?	Standard Product Type Code	Bucket Category	Bucket Type	Measure
RBIIRSP022R0020C0050	No	Perpetual Cumulative Preference Shares	Over 6 months and up to 1 year	IR	Agg Outflow Amount
RBIIRSP022R0020C0060	No	Perpetual Cumulative Preference Shares	Over 1 year and up to 3 years	IR	Agg Outflow Amount
RBIIRSP022R0020C0070	No	Perpetual Cumulative Preference Shares	Over 3 years and up to 5 years	IR	Agg Outflow Amount

The following table is derived after converting the dimension member and measure names into corresponding dimension member codes (not surrogate keys) and measure codes. This decision table mapping is provided for each decision table in excel format as per the template. AgileREPORTER converts the decision table mapping present in excel into configuration entries within their schema.

**Table 8: Dimension Mapping Example 2**

Cell References	Is Derived?	Standard Product Type Code	Bucket Category	Bucket Type	Measure
RBIIRSP022R0020C0020	No	Perpetual Cumulative Preference Shares	1 to 28 days	IR	MSREG976
RBIIRSP022R0020C0030	No	Perpetual Cumulative Preference Shares	29 days to 3 months	IR	MSREG976
RBIIRSP022R0020C0040	Yes				
RBIIRSP022R0020C0050	No	Perpetual Cumulative Preference Shares	Over 6 months and up to 1 year	IR	MSREG976
RBIIRSP022R0020C0060	No	Perpetual Cumulative Preference Shares	Over 1 year and up to 3 years	IR	MSREG976
RBIIRSP022R0020C0070	No	Perpetual Cumulative Preference Shares	Over 3 years and up to 5 years	IR	MSREG976

**NOTE**

All the dimension member codes that are used in the decision table are pre-seeded by OFSAA and cannot be modified. Therefore, if you have other member codes in the dimension, then you must re-classify them by using re-classification rule post load, or value-code mapping during load.



Decision tables must be prepared closer to the report submission period. In some cases, reclassification of multiple dimensions that result in a single unified reporting dimension must be performed in order to address the complexity of the decision table. Reclassification rule is defined in OFSAA and packaged as part of the OFSAA Risk Regulatory Reporting Solution.

In some cases, certain sections of the schedule or the entire schedule can be a list of data rows without any mapping to a fixed set of dimension members. For example, Top 20 counterparties, List of Available for Sale (AFS) - securities. In such cases, since there are no cell references, decision table mapping specifies the names of dimensions and measures of derived entities in the 'sheet' column or 'row' column of the template.

---

**NOTE**

As a part of the solution, metadata exists as out-of-box / pre-configured with the installer.

## 6 Report Submission

This chapter provides an understanding of the report submission process. It includes:

- [Report Submission: AgileREPORTER to Regulator](#)
- [Edit Checks/ Validity Check/ Quality Checks](#)
- [Report Templates to be used in AgileREPORTER](#)

### 6.1 Report Submission: AgileREPORTER to Regulator

After OFSAA has prepared and hands off the data as required to Lombard Risk, the subsequent activities are performed within the AgileREPORTER.

Lombard takes care of the report format as per the regulatory requirement which may be eXtensible Business Reporting Language (XBRL)/ XML/ Excel / Data/ XML and so on.

### 6.2 Edit Checks/ Validity Check/ Quality Checks

The AgileREPORTER carries out the report level/submission check comprising Edit Checks / Validity Checks / Quality Checks as provided by the regulator.

Refer to the AgileREPORTER user documentation provided by Lombard Risk, for details of activities within the AgileREPORTER.

### 6.3 Report Templates to be used in AgileREPORTER

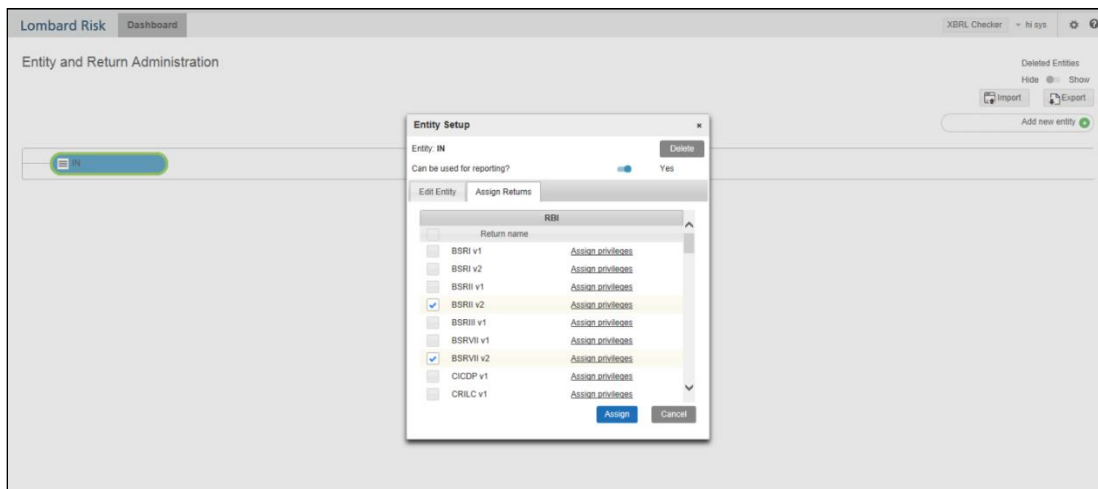
The report templates to be used in AgileREPORTER are listed as follows:

Report Name	Template Version
BSRII	BSRII_v4
BSRVII	BSRVII_v2
CRILC	CRILC_v7
CUSTAT	CUSTAT_v2
DSB3ROR	DSB3ROR_v5
DSBIALE	DSBIALE_v8
FORMAS42	FORMAS42_v3
FORMVIII	FORMVIII_v4
FORMX	FORMX_v3
IRS	IRS_v4
LCRBLR	LCRBLR_v6
LEVRATIO	LEVRATIO_v4
LR	LR_v7
RAQ	RAQ_v7
RBSIXBRL	RBSIXBRL_v5

Report Name	Template Version
RBSTR1	RBSTR1_v3
RBSTR3	RBSTR3_v6
RCAIII	RCAIII_v7
RLC	RLC_v4
SLR	SLR_v3

## 6.4 Supported Report Template Version and Activation Date

The AgileREPORTER contains the details of the Report template version and the activation date of the same. This can be accessed by selecting the Entity setup option in the Settings menu which enables the user to Add, Modify, and Delete Entities. Click on a created Entity to access report templates according to version and the activation date, and assign the necessary privileges as required.



**Figure 26: AgileREPORTER Entity Setup**

Refer to the OFS AgileREPORTER User Guide for more details.

# 7 Maintenance

This chapter provides an understanding of the maintenance process for the regulatory templates.

Changes to the regulatory template are one of the most common and continuous activity. The following steps help to assess the impact (You can replace the measure, dimension for existing Dataware housing configuration pack using the below process):

1. Choosing different execution as a final. After report verification, if the requirement is to change the execution, then you must visit Marking Run as Final section. After making these changes you must refresh Derived Entities (**Error! Reference source not found.**). Then AgileREPORTER also needs to retrieve returns so that revised data is reflected on AgileREPORTER.
2. If [Executing Batch to Resave Derived Entities](#) is not working, you can look for Batch Operation Log files. For file path, refer to OFS Analytical Applications Infrastructure Installation Manual in [OHC](#) documentation library and search for **ficdb/log**.
3. To apply the revised patch, refer to the **ReadMe** file for instructions to be followed.
4. To update the revised data warehouse configuration pack, perform the following instructions.
  - a. Click **Settings → Administration → Data Warehouse Integration**.

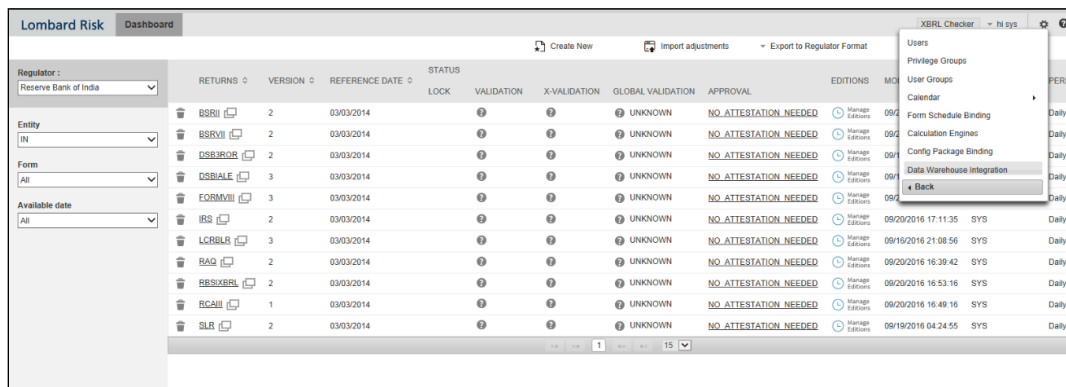


Figure 27: Data Warehouse Integration

- b. Click **Add** to add a contextual button.
- c. Enter details of the contextual button.

**Name:** It is the text that needs to be displayed in the contextual button.

**URL Pattern:** Replace <<OFSAA\_HOST>>, <<OFSAA\_PORT>> and <<OFSAA\_CONTEXT>> with host, port and web context of the environment where OFSAA is installed. Replace <<OFSAA\_HOST>> with the name of information domain.

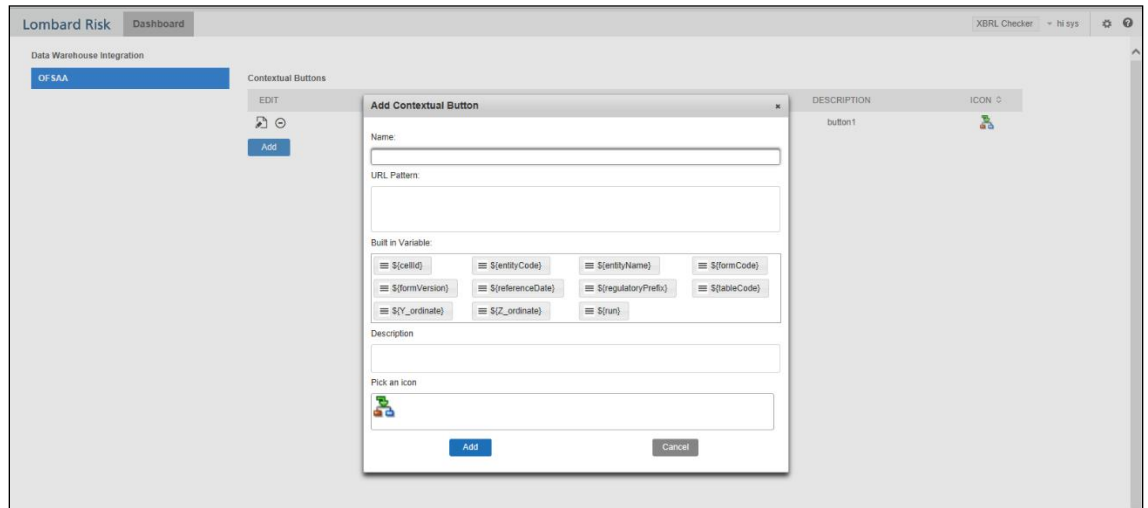
http://<<OFSAA\_HOST>>:<<OFSAA\_PORT>>/<<OFSAA\_CONTEXT>>/OFSAADrilldown/drilldownreport.jsp?cellid=\${cellId}&infodom=<<INFODOM>>&legalentity=\${entityCode}&run=\${run}&date=\${referenceDate}

**Example:**

http://127.0.0.1:8080/ofsa/OFSAADrilldown/drilldown.jsp?cellid=\${cellId}&infodom=OFSFSDFI NFO&legalentity=\${entityCode}&run=\${run}&date=\${referenceDate}

- i. Use http or https depending on the protocol configured for OFSAA.
- ii. Pick an icon.

- d. Click **Add** to save the details.



**Figure 28: Adding Contextual Button**

- 5. After the data ware configuration pack is updated, the Lombard Configuration pack must reflect this.

**NOTE**

See the Lombard Risk AgileREPORTER User Guide (Online Help) for details.

## 8 Troubleshooting Guidelines

This section covers troubleshooting guidelines for the use of Oracle Financial Services Regulatory Reporting Integration with AgileREPORTER, hereafter called Integration.

Integration users provide the data inputs through the OFSDF where data is loaded, processed and results are made available for reporting purposes. The integration package then makes this data available in required formats to AgileREPORTER. In AgileREPORTER, this data is then aggregated according to the reporting requirements and end-users view this from AgileREPORTER User Interfaces designed for the Viewing / Editing of this aggregated data.

This section provides detailed guidelines on how to troubleshoot the data issues tracing back the data flow from AgileREPORTER.

### 8.1 Prerequisites

It is assumed that you can log in and see the following menus and respective reports in AgileREPORTER.

Regulator :	RETURNS	VERSION	REFERENCE DATE	STATUS	LOCK	VALIDATION	X-VALIDATION	GLOBAL VALIDATION	APPROVAL	EDITIONS	MODIFIED	MODIFIED BY	PERIOD
Reserve Bank of India	BSRII	2	03/03/2014	UNKNOWN				UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	09/20/2016 13:11:43	SYS	Daily
	BSEVII	2	03/03/2014	UNKNOWN				UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	09/20/2016 07:42:29	SYS	Daily
	DSEBROB	2	03/03/2014	UNKNOWN				UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	09/16/2016 20:05:14	SYS	Daily
	DSEBIAE	3	03/03/2014	UNKNOWN				UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	09/19/2016 16:30:29	SYS	Daily
	FORMVIII	3	03/03/2014	UNKNOWN				UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	09/20/2016 16:58:22	SYS	Daily
	ISS	2	03/03/2014	UNKNOWN				UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	09/20/2016 17:11:35	SYS	Daily
	LCRBLR	3	03/03/2014	UNKNOWN				UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	09/16/2016 21:08:56	SYS	Daily
	BAG	2	03/03/2014	UNKNOWN				UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	09/20/2016 16:39:42	SYS	Daily
	BBSIXBRL	2	03/03/2014	UNKNOWN				UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	09/20/2016 16:53:16	SYS	Daily
	SCALII	1	03/03/2014	UNKNOWN				UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	09/20/2016 16:49:16	SYS	Daily
	SLB	2	03/03/2014	UNKNOWN				UNKNOWN	NO ATTESTATION NEEDED	Manage Editions	09/19/2016 04:24:55	SYS	Daily

Figure 29: AgileREPORTER

This means configurations activities for the AgileREPORTER and OFSAA are completed. Set up activities for Entity is done and reports templates, as shown above, are available for viewing. Report Names shown in the figure are for illustration purpose and the actual name depends on the integration pack licensed.

## 8.2 Troubleshooting Use Cases

### 8.2.1 Unable to Generate Report

If you are unable to generate reports, meaning none of the derived entities referred to in the report has rows for the LE/date combination, then you must refer to Installation Manuals of AgileREPORTER or OFSAA Integration pack for further instructions and steps to be followed.

If the process mentioned in Installation Manual is correctly followed and still report list is not available then you are requested to log in the bug/service request with Lombard Risk.

## 8.2.2 Data Unavailable in AgileREPORTER

This is a use case where you are logged in to AgileREPORTER and selected particular regulatory reports for the appropriate entity and As of Date, but unable to generate the report.

### 8.2.2.1 Fetching Null or Zero Values

AgileREPORTER is showing either Zero or Null values. It indicates that Derived Entities has data (however, all required filer conditions are not matching and resulting in zero value output) or Derived Entity does not have data at all.

The screenshot shows the AgileREPORTER interface for Lombard Risk. The main table displays financial data for two parts: Government Securities and Other Approved Securities. The columns are Particulars, Face Value (1), Book Value (2), Depreciation Held (3), and Net Value for SLR Purpose (4)=[2]-[3]. The data shows null values for Face Value, Book Value, and Depreciation Held, and zero values for Net Value. The table also includes a summary section for the total value of securities for the purpose of SLR, with a date of 3/3/14 and an authorized signatory field.

Particulars	Face Value (1)	Book Value (2)	Depreciation Held (3)	Net Value for SLR Purpose (4)=[2]-[3]
<b>PART I - Government Securities</b>				
Opening Balance	NULL	NULL	NULL	NULL
Addition during the fortnight (+)	0.00	0.00	0.00	0.00
Deduction during the fortnight (-)	0.00	0.00	0.00	0.00
Closing Balance (a)	0.00	0.00	0.00	0.00
<b>PART II - Other Approved Securities</b>				
Opening Balance	NULL	NULL	NULL	NULL
Addition during the fortnight (+)	0.00	0.00	0.00	0.00
Deduction during the fortnight (-)	0.00	0.00	0.00	0.00
Closing Balance (b)	0.00	0.00	0.00	0.00
Closing Balance (a+b)	0.00	0.00	0.00	0.00
<b>TOTAL VALUE OF SECURITIES FOR THE PURPOSE OF SLR</b>				
PART I	0.00	0.00	0.00	0.00
PART II	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00

Figure 30: Fetching Null or Zero Values

You must validate as:

1. Derived Entity has data:
  - a. Execute the Derived Entity / Materialized views to check if Derived Entity has data or not.
  - b. If Derived Entity / materialized view has data but not showing in AgileREPORTER, you must log a Bug / Service Request with Lombard Risk.
2. Derived Entity does not have data:
  - a. Execute the Derived Entity / Materialized views to check if Derived Entity has data or not.
  - b. If Derived Entity does not have data, then check the Business Metadata excel for a given schedule.
  - c. Check Worksheet titled 'Derived Entity' in Business Metadata excel. Get all the derived entities for a given schedule.
  - d. Get dataset for each derived entity.
  - e. Execute datasets in OFSAA FPDF Atomic Schema to check if data is available for a given dataset joins.
  - f. If data is available in dataset queries, you must log a Bug / Service Request with AgileREPORTER.
  - g. If data is not available in the dataset, then check if a selection of Entity, Available Date (as of date) is appropriate and required executions are available. If Entity, As of Date and Run executions are correct and still data is not available, then you must log a Bug / Service Request with [Oracle Support](#).

## 8.2.3 Data Available in AgileREPORTER but Not as Expected

This use case where you are able to reference data for a required cell of a schedule in AgileREPORTER; however, the value shown differs from the expected value.

Let us take the following example to illustrate the steps to be followed. This refers to RegCapitalBaselIIC\_P2 from the RCAIII v1 reports from RBI. Particular cell referred here is RBIRCA3P002R0110C0030 –

Common Equity Tier 1 capital (CET1): instruments and reserves:

1. Interest-free funds from H.O. (for Foreign banks):

Computation of Regulatory Capital (Consolidated)					
Bank Code		Report as of			
NULL		NULL			
Regulatory Capital (Rs. in Lakh)					
Sr No	Items	Eligible amount	Regulatory adjustments / deductions - Amounts subject to pre-Basel III treatment	Total Regulatory adjustments / deductions (3+4)	Remarks
1	Common Equity Tier 1 capital (CET1): Instruments and reserves				
1	Common shares (paid-up equity capital)	1,200.00			NULL
2	Stock surplus (share premium)	1,400.00			NULL
3	Statutory reserves	1,600.00			NULL
4	Other disclosed free reserves	1,800.00			NULL
5	Capital reserves representing surplus arising out of sale proceeds of assets	2,000.00			NULL
6	Balance in Profit & Loss Account at the end of the previous financial year	2,200.00			NULL
7	Current Financial Year Profit, to the extent admissible	2,400.00			NULL
8	Minority interest in Common Equity Tier 1 capital of consolidated subsidiaries to be recognised	2,600.00			NULL
9	Interest free funds from H.O. (for Foreign banks)	2,800.00			NULL
10	Statutory Reserves kept in Indian books (for Foreign banks)	3,000.00			NULL
11	Remittable surplus retained in Indian books (not repatriable) (for Foreign banks)	3,200.00			NULL
12	Capital Reserves (non-repatriable surplus from sale of assets in India held in a separate account) (for Foreign banks)	3,400.00			NULL
13	Interest free funds remitted from abroad for acquisition of property and held in a separate account (for Foreign banks)	3,600.00			NULL
14	Any other instrument permitted by RBI (please specify under remarks column)	3,800.00			NULL
15	Common Equity Tier 1 capital before regulatory adjustments (sum of row 1 to 8 and row 14 for Domestic banks; sum of row 9 to 14 for	36,000.00			NULL

Figure 31: RWA\_P1 from RCAIII v1 Report

You can drill down for each cell to check the details of data as to what is included in the aggregation. To drill down, click the value of a particular cell and it is shown highlighted. It shows the OFSAA data lineage icon on clicking as shown in Figure 32.

Computation of Regulatory Capital (Consolidated)					
Bank Code		Report as of			
NULL		NULL			
Regulatory Capital (Rs. in Lakh)					
Sr No	Items	Eligible amount	Regulatory adjustments / deductions - Amounts subject to pre-Basel III treatment	Total Regulatory adjustments / deductions (3+4)	Remarks
1	Common Equity Tier 1 capital (CET1): Instruments and reserves				
1	Common shares (paid-up equity capital)	1,200.00			NULL
2	Stock surplus (share premium)	1,400.00			NULL
3	Statutory reserves	1,600.00			NULL
4	Other disclosed free reserves	1,800.00			NULL
5	Capital reserves representing surplus arising out of sale proceeds of assets	2,000.00			NULL
6	Balance in Profit & Loss Account at the end of the previous financial year	2,200.00			NULL
7	Current Financial Year Profit, to the extent admissible	2,400.00			NULL
8	Minority interest in Common Equity Tier 1 capital of consolidated subsidiaries to be recognised	2,600.00			NULL
9	Interest free funds from H.O. (for Foreign banks)	2800			NULL
10	Statutory Reserves kept in Indian books (for Foreign banks)	3,000.00			NULL
11	Remittable surplus retained in Indian books (not repatriable) (for Foreign banks)	3,200.00			NULL
12	Capital Reserves (non-repatriable surplus from sale of assets in India held in a separate account) (for Foreign banks)	3,400.00			NULL
13	Interest free funds remitted from abroad for acquisition of property and held in a separate account (for Foreign banks)	3,600.00			NULL
14	Any other instrument permitted by RBI (please specify under remarks column)	3,800.00			NULL
15	Common Equity Tier 1 capital before regulatory adjustments (sum of row 1 to 8 and row 14 for Domestic banks; sum of row 9 to 14 for	36,000.00			NULL

Figure 32: OFSAA Data Lineage Icon



Make sure that you are logged into OFSAA infrastructure before clicking the Data Lineage icon.

- If you are not already logged in, clicking here opens the OFSAA infrastructure login window. Log in using appropriate credentials and come back to Report Portal and click the same Data Lineage icon again.
- If you are already logged in to OFSAA Infrastructure, the Data Lineage first page opens as shown in Figure 33.

Data Lineage										
Run Execution ID	-S			Date	03 Mar 2014					
Legal Entity	IN			Reference Identifier	RBRACDP003R0010C0010					
Derived Entity: DE - Reg Account Summary Asset Quality (2)										
OVERDUE EXCEPTION FLAG 90A4Y	Entity Country ID	Regulatory Product Type Code	Standard Party Type Code	Standard Party Type Level 1 Code	Sector Code	Regulatory Credit Status Code	Sector Financing Indicator	Customer Size	Risk Sector Code	
	IN	HELOAN				S		Micro		
	IN	HELOAN				S		Micro		

**Figure 33: OFSAA Data Lineage Page**

The top block of this screen shows the following information which helps to connect the AgileREPORTER aggregated data to OFSAA references.

1. Run Execution ID: This refers to the OFSAA Execution ID chosen for a given report.
2. Date: This refers to AS OF DATE selected for a given report.
3. Legal Entity: This refers to the OFSAA Legal Entity for whom the report is generated.
4. Reference Identifier: This is the cell reference for which data drill down / lineage is being checked.

The second block displays all hierarchies with values used in a given Derived Entity and measures aggregated for a given combination of hierarchy values.

To refer the measure values, scroll rightwards using the horizontal scroll bar at bottom of the second block. On the extreme right, measures are displayed as shown in Figure 34:

Data Lineage										
Run Execution ID	-S			Date	03 Mar 2014					
Legal Entity	IN			Reference Identifier	RBRACDP003R0010C0010					
Derived Entity: DE - Reg Account Summary Asset Quality (2)										
SL	Past Due Flag	Restructured Flag	FRS Stage Code	Exposure Default Status Flag	Range of Sanctioned Limit 4 Lakhs	Range of Sanctioned Limit 25 Lakhs	Holding Type Code	Reg Delinquency Band	Equity Traded Flag	BAS Exp Balance BCY
								941		465,082.00
								941		465,081.00

**Figure 34: Measure Values**

Only measure values are hyperlinked indicating that they can be drilled down further. On clicking the amount, second-level drill-down shows the lowest granularity data available for a given cell reference.

### 8.2.3.1 Using Drill Down with Data Lineage View

Data Analysts/You can then compare these accounts and their respective monetary amounts with expected values. One can check the following:

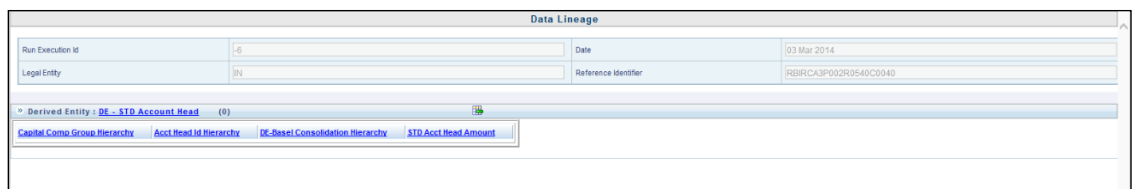
1. All required accounts are shown in aggregation
2. Unwanted accounts are not included in the aggregation
3. Measures / Monetary amounts at account granularity are as expected.

Any deviation from expectations can be then checked back for:

1. If the measure is stage pass through, then validate using T2T to verify if stage data is as expected or must be corrected.
2. If the measure is processed, then validate using T2T to verify processing measure is correctly moved to the result area.
3. If reclassified hierarchies are showing unexpected values, check Rules and source hierarchies of rules. This use case needs close verification to ensure that all source hierarchies have required values or Rule sequence which can lead to overwriting the values.
4. If all the source data is as expected and the result area is now showing unexpected output, then log a Bug / Service Request with [Oracle Support](#).

### 8.2.3.2 Data Lineage View is not available

If the second block does not show any data, then data analysts/you are advised to refer to the data set worksheet of Business Metadata.



**Figure 35: Data Lineage Unavailable**

There can be a few reasons why the second block does not show the data:

1. Internet connection is timed out or broken down - in this case clicking Data Lineage on AgileREPORTER results in a black second block. To rectify this, re-login to OFSAA infrastructure and AgileREPORTER.
2. Data Lineage view works after Metadata is published using OFSAA Infrastructure. To validate if Metadata is properly published or not.
3. If Metadata is properly published and the second block still does not show the data, then start with Derived Entity code shown at the beginning of the second block. This Derived Entity code is available even if data is not available.
4. Using this Derived Entity code data analysts are advised to refer to OFSAA Business metadata with worksheet name as 'Derived Entity'. Sample Business Metadata excel is shown in Figure 36:

1	A	B	C	D	E	F	G	H	I	J
Derived Entity Code	Short Description	Long Description	Source Type	Aggregate	Materialized View	Dataset Code	Dataset Name	Selected Metadata		
1236	DER8510	DE - Fund Exposures for Rep line	DE - Fund Exposures for Rep line	Dataset	Y	Y	DSR8510	D5 - Fund Exposures for Rep line	Calendar Date	
1237								Run Description		
1238								Org Structure Entity Code		
1239								Eop Balance RCY		
1240	DER8508	DE-Fnd Expsrs-brwrws excdng 1 prcnt-bnks netwrth	DE-Fnd Expsrs-brwrws excdng 1 prcnt-bnks netwrth	Dataset	Y	Y	DSR8508	D5-Fnd excdng 1 prcnt of bkns ntwrth	RAS Eop Balance RCY Borrowerwise	
1241								MGMT Eop Balance RCY Borrowerwise		
1242								Regulatory Group Borrower Code		
1243								Regulatory Group Borrower Name		
1244								Regulatory Product Type Code Level1		
1245								SLR Eligible security Flag		
1246								Calendar Date		
1247								Run Description		
1248								Org Structure Entity Code		
1249	DER8516	DE-1 Front of Total Fnd Exprs	DE-1 Front of Total Fnd Exprs	Dataset	Y	Y	DSR8527	DE-1 Prnt of Total Fnd Exprs	Org Structure Entity Code	
1250								Calendar Date		
1251								Run Description		
1252								SLR Eligible security Flag		
1253								Banks Net worth by percentage		
1254								Regulatory Product Type Code Level1		
1255								Regulatory Group Borrower Name		
1256								Regulatory Group Borrower Code		
1257	DER8502	DE - Asstes of bank Reported in Bal Sheet	DE - Asstes of bank Reported in Bal Sheet	Dataset	Y	Y	DSR85100	D5 - Fund Exposures By Rep line	Calendar Date	
1258								Run Description		
1259								Org Structure Entity Code		
1260								Mgmt EOP Bal RCY Incid Goodwill		
1261								Mgmt EOP Bal RCY excid intangibl		
1262	DER8503	DE - Reg Capital Summary under RCA	DE - Reg Capital Summary under RCA	Dataset	Y	Y	DSR8511	D5 - Reg Capital Summary under RCA	Calendar Date	
1263								Run Description		
1264								Org Structure Entity Code		
1265								Amount post regulatory adjustment		
1266								Reporting Line Codes		
1267								Reporting Line Name		
1268	DER8504	DE - Expsrs-Stndrd and rtd at Hrtle rate	DE - Expsrs-Stndrd and rtd at Hrtle rate	Dataset	Y	Y	DSR8512	D5 - Expsrs-Stndrd and rtd at Hrtle rate	Calendar Date	
1269								Run Description		
1270								Org Structure Entity Code		
1271								Regulatory Credit Status Code		

Figure 36: Business Metadata - 1

- By referring to Business Metadata, you can get complete information on Derived Entity such as dataset, Fact tables, measures, hierarchies defined under particular Derived Entity.

1240	DER8508	DE-Fnd Expsrs-brwrws excdng 1 prcnt-bnks netwrth	DE-Fnd Expsrs-brwrws excdng 1 prcnt-bnks netwrth	D5-Fnd excdng 1 prcnt of bkns ntwrth	RAS Eop Balance RCY Borrowerwise
1241					MGMT Eop Balance RCY Borrowerwise
1242					Regulatory Group Borrower Code
1243					Regulatory Group Borrower Name
1244					Regulatory Product Type Code Level1
1245					SLR Eligible security Flag
1246					Calendar Date
1247					Run Description
1248					Org Structure Entity Code

Figure 37: Business Metadata - 2

The Dataset ANSI Joins provides valuable information on how various entities are joined/linked together. By executing these Joins, you can confirm if data is available for given filters and conditions. If data is fetched using Dataset Joins and Data Lineage does not show data, you must log a Bug / Service Request with [Oracle Support Services](#).

