

# Oracle Fusion ERP Reporting in OACS(FAW) and Power BI

**bm** find  
the  
real  
BIZMETRIC balance

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# Oracle Fusion Analytics Warehouse(FAW) Overview

Fusion Analytics Warehouse (FAW) is an optimized analytics solution that provides rapid time to insights for multifarious lines of business through Oracle's feature-rich production-ready business intelligence software for Fusion Cloud Apps

FAW is fully extensible and customizable; allowing customers to import external data into Autonomous Datawarehouse(ADW), expand the base semantic model, and add additional content to Oracle Analytics Cloud(OAC)

## FAW Components

Oracle-managed components comprise of:

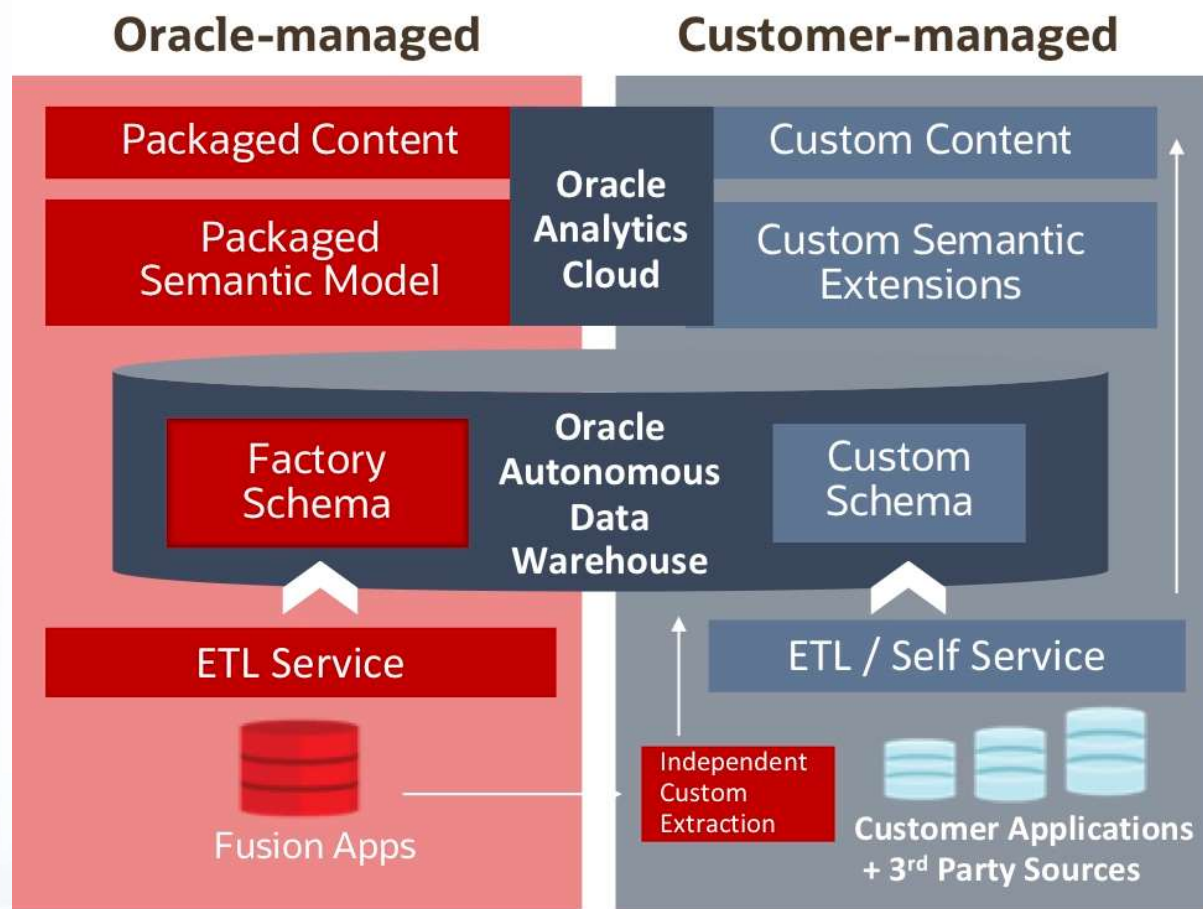
- Fusion SaaS Applications source
- ETL service to extract Fusion data, transform and load it to the Factory schema
- Pre-packaged semantic model covering the FAW subject areas (GL balances, GL Journals, Account Payables, Account Receivables, etc.)
- Pre-packaged content (KPIs, visualizations, machine learnings models.)

# Architecture Diagram

The FAW Oracle-managed components shown in red on the left are immutable and cannot be modified

The Customer-managed components shown in blue on the right represent customizable elements

Fusion Analytics Warehouse is a new product line of targeted analytical applications for Oracle SaaS customers



# Data Extensibility Case Study

## Scenario:

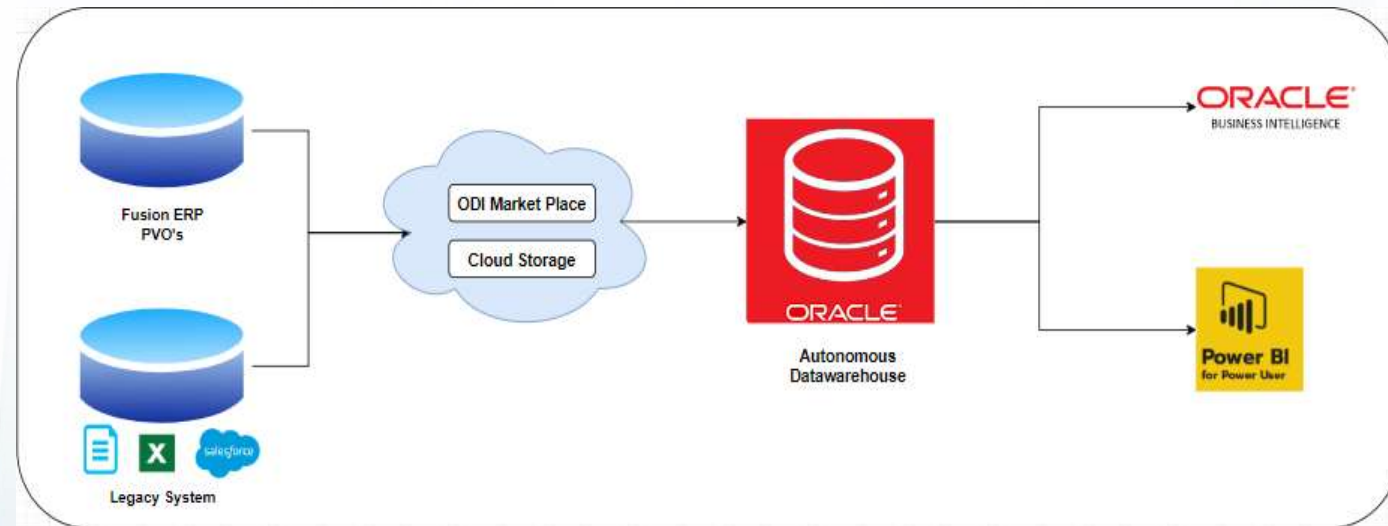
Extract Fusion VO's related to AP Invoices, Supplier Site, Business Unit and Combine the model with Custom Dataset of Country, State and Region.s

**Pre-Requisites** : Oracle Fusion ERP Account, Oracle OCI Account & Microsoft Power BI

## Solution :

- Provisioning ODI Marketplace
- Configuring Oracle Object Storage
- Configure BICC to write to object storage
- Configure ODI Topologies
- Create ODI Models
- Configure Knowledge Modules in ODI
- Create ODI Project and Mapping
- Run the ODI Mapping
- Create Power BI/OACS Model
- Create Reports

## High Level Architecture



## Step1 : Provisioning ODI Market Place

Go-to Marketplace >> All Application >> Data Integrator: Web Edition(Select Stack type)

The screenshot shows the Oracle Cloud Marketplace interface. At the top, there is a search bar with the text "Data Integrator: Web Edition" entered. Below the search bar, the results are displayed under the heading "All Applications". There are three application cards visible:

- ORACLE Data Integrator**  
**Data Integrator: Web Edition**  
Modern, low-code data transforms for Autonomous DB and Oracle D...  
Type: Image | Price: Free
- ORACLE Data Integrator**  
**Data Integrator: Web Edition (Versions prior to May 2022)**  
Modern, low-code data transforms for Autonomous DB and Oracle D...  
Type: Stack | Price: Free
- ORACLE Enterprise Data Quality**  
**Oracle Enterprise Data Quality on WebLogic**  
A full instance of EDQ, Oracle's data quality management softwar...  
Type: Image | Price: BYOL

On the left side of the interface, there are navigation links for "All Applications", "Community Applications", and "Accepted Agreements". Below these are filter options for "Type" and "Architecture", both currently set to "Any". A "Clear" button is also present next to the filters.

## Step2 : Configure Oracle Object Storage

Search for Object Storage >> Bucket >> Create Bucket

The screenshot shows the Oracle Cloud console interface. The top navigation bar includes the Oracle Cloud logo, a search bar, and the region 'US West (San Jose)'. The main content area is titled 'Buckets in BICCPOC Compartment' and includes a 'Create Bucket' button. Below the button is a table with the following data:

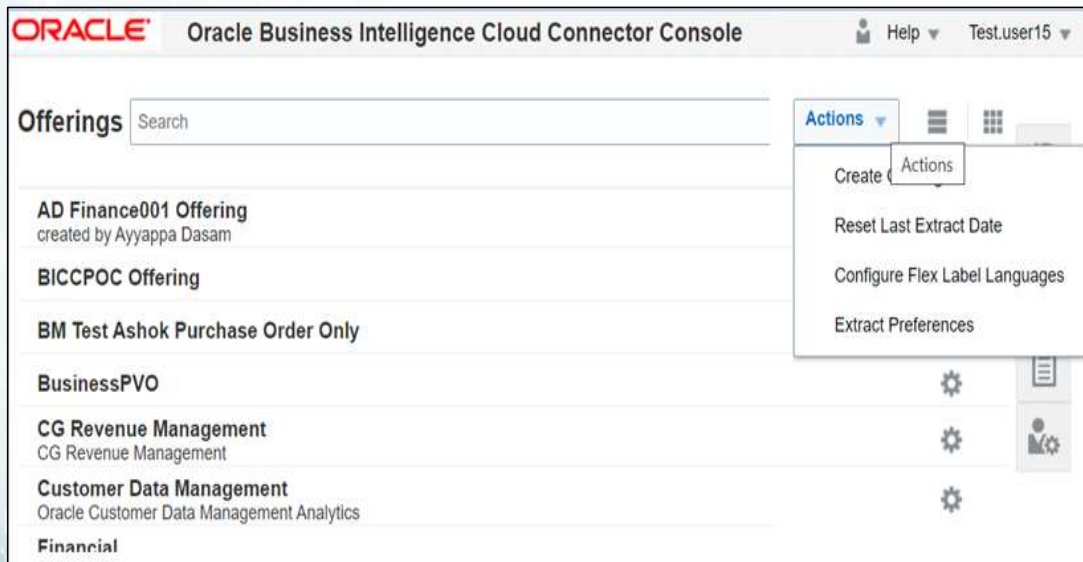
Name	Default Storage Tier	Visibility	Created
<a href="#">BICCPOC-Bucket</a>	Standard	Public	Wed, Jul 13, 2022, 10:05:21 UTC
<a href="#">Demo_Bucket</a>	Standard	Public	Fri, Aug 19, 2022, 10:17:38 UTC

At the bottom of the table, it says 'Showing 2 Items < 1 of 1 >'. The left sidebar shows the navigation menu with 'Object Storage & Archive Storage' selected, and 'Buckets' is the active sub-section. The compartment is 'BICCPOC' and there are no tag filters applied.

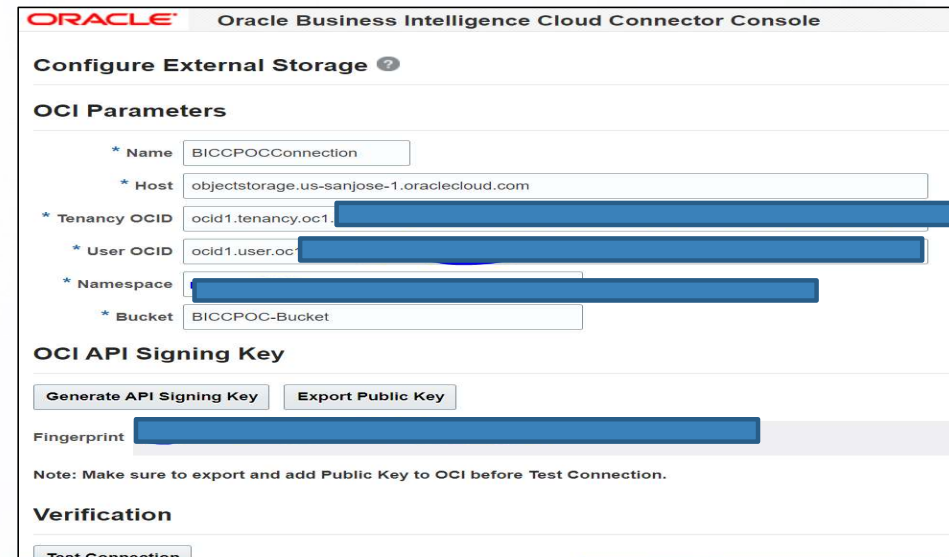
## Step3 : Configure BICC Connector

Go-to Fusion ERP URL/biacm

1. Create Offering of PVO's(Click on Manage Offering and Data Stores>>Actions)
2. Create External Connection(Click on Configure External Storage >> OCI Object Storage Connection)



The screenshot shows the Oracle Business Intelligence Cloud Connector Console interface. The top navigation bar includes the Oracle logo, the console name, and user information (Test.user15). Below the navigation bar is a search bar for Offerings. A list of offerings is displayed, including AD Finance001 Offering, BICCPOC Offering, BM Test Ashok Purchase Order Only, BusinessPVO, CG Revenue Management, Customer Data Management, and Financial. An 'Actions' dropdown menu is open over the BICCPOC Offering, showing options: Create, Reset Last Extract Date, Configure Flex Label Languages, and Extract Preferences.



The screenshot shows the 'Configure External Storage' configuration page in the Oracle Business Intelligence Cloud Connector Console. The page title is 'Configure External Storage'. Under the 'OCI Parameters' section, the following fields are visible: Name (BICCPOCConnection), Host (objectstorage.us-sanjose-1.oraclecloud.com), Tenancy OCID (ocid1.tenancy.oc1-...), User OCID (ocid1.user.oc1-...), Namespace (...), and Bucket (BICCPOC-Bucket). Below this is the 'OCI API Signing Key' section, which includes buttons for 'Generate API Signing Key' and 'Export Public Key', and a 'Fingerprint' field. A note states: 'Note: Make sure to export and add Public Key to OCI before Test Connection.' A 'Verification' section with a 'Test Connection' button is partially visible at the bottom.

## Step4: Configure ODI Topology

1. Create Physical and Logical schema connections in Topology for below data sources.
  - a. Oracle BI Cloud Connector
  - b. Oracle Object Storage
  - c. Oracle ADW

The screenshot shows the configuration for a Data Server in ODI. The 'Definition' tab is active, showing the following fields:

- Definition:** Data Server
- Version:** (empty)
- Privileges:** Name: BICC POC ERP Cloud
- Flexfields:** BI Cloud Connector Service URL: (redacted)
- Connection:** User: (redacted), Password: (masked with dots)
- Storage:**  Oracle Storage Cloud Service,  Oracle Object Storage
- Oracle Object Storage Configuration:** Oracle Object Storage DataServer: OS\_FusionSaasReplication
- Physical Schema:** Physical Schema: OS\_FusionSaasReplication.BICCPOC-Bucket
- External Storage Name:** BICCPOC

The screenshot shows the definition of Physical and Logical Schemas in ODI.

**Physical Schema [Data Server: BICC POC ERP Cloud]**

- Context:** (empty)
- Version:** Name: BICC POC ERP Cloud.FscmTopModel
- Privileges:** Schema: FscmTopModel
- Flexfields:**  Default

**Logical Schema**

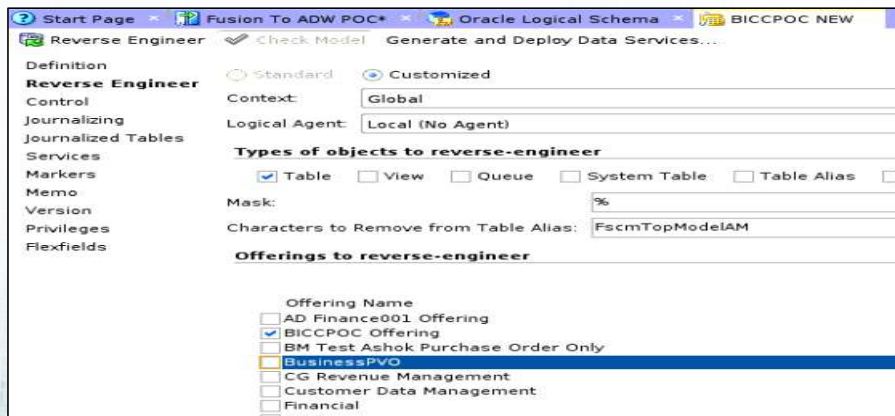
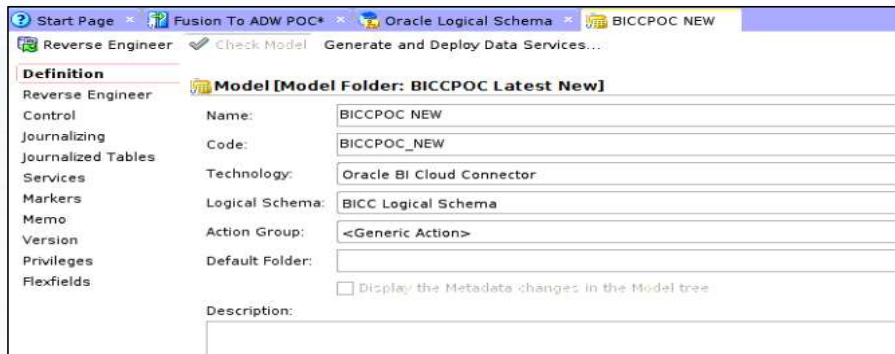
- Version:** (empty)
- Privileges:** Name: BICC Logical Schema
- Flexfields:**

Context	Physical Schemas
Development	BICC POC ERP Cloud.FscmTopModel
Global	BICC POC ERP Cloud.FscmTopModel
Production	<Undefined>
Test	<Undefined>



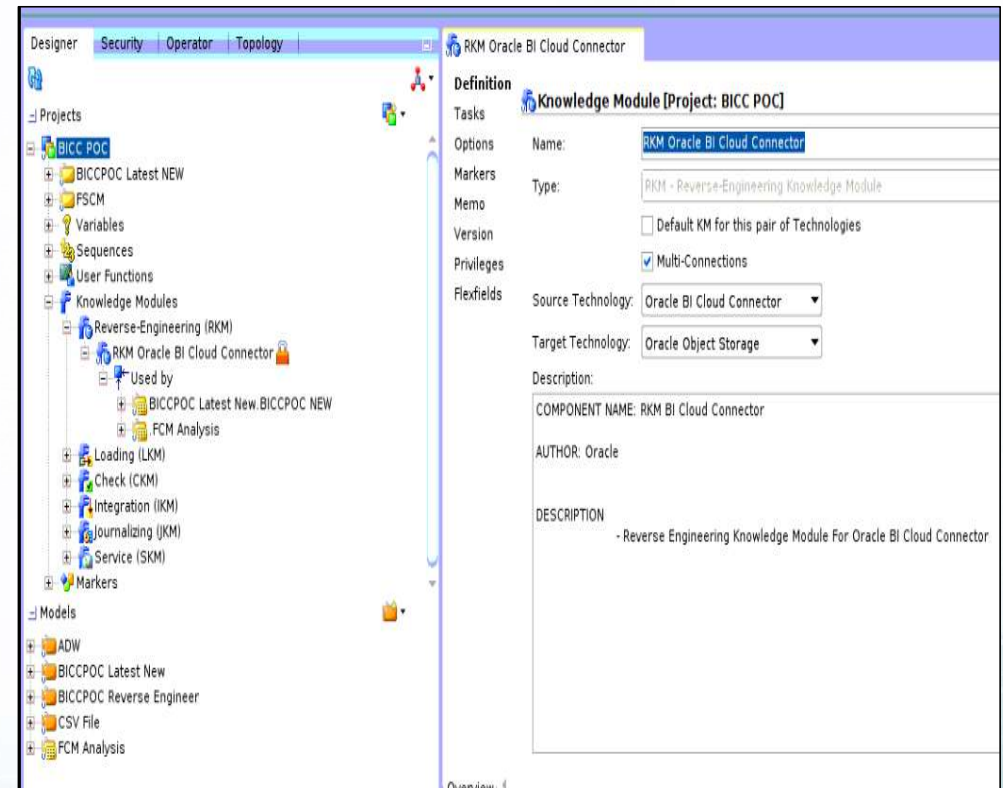
## Step 5 : Create ODI Models

Create and select the offering in model and do the reverse engineering



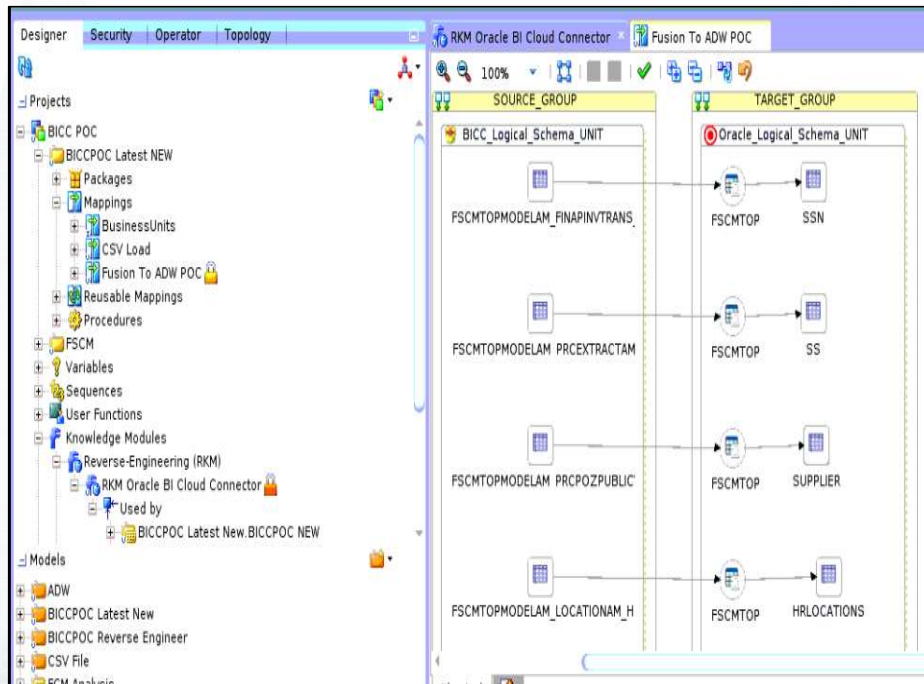
## Step 6 : Configure Knowledge Modules in ODI

Import Knowledge Module for Oracle BICC Connector



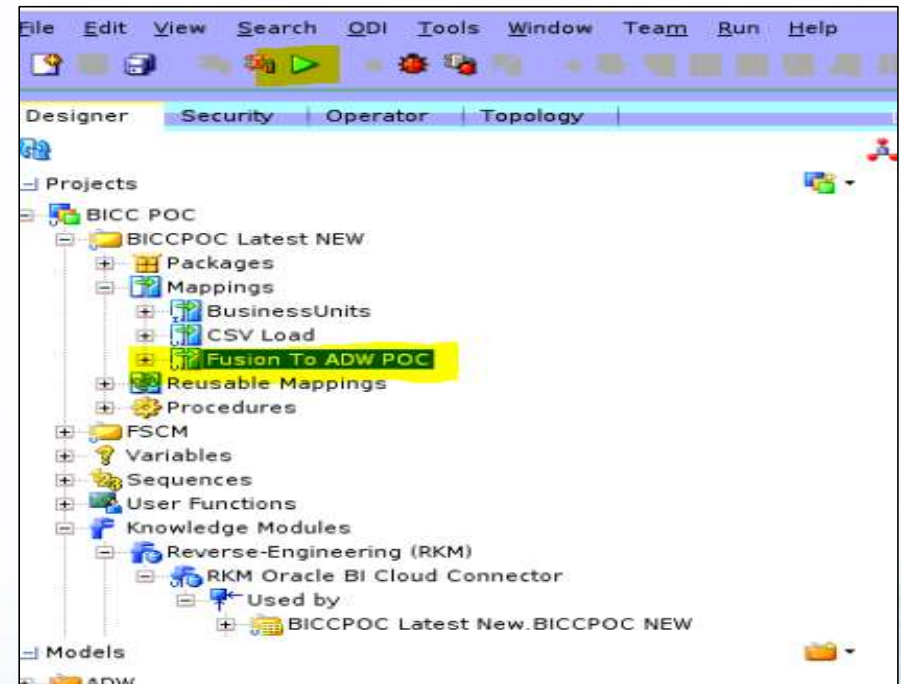
## Step7 : Create ODI Project and Mapping

Create one folder and then create the mapping

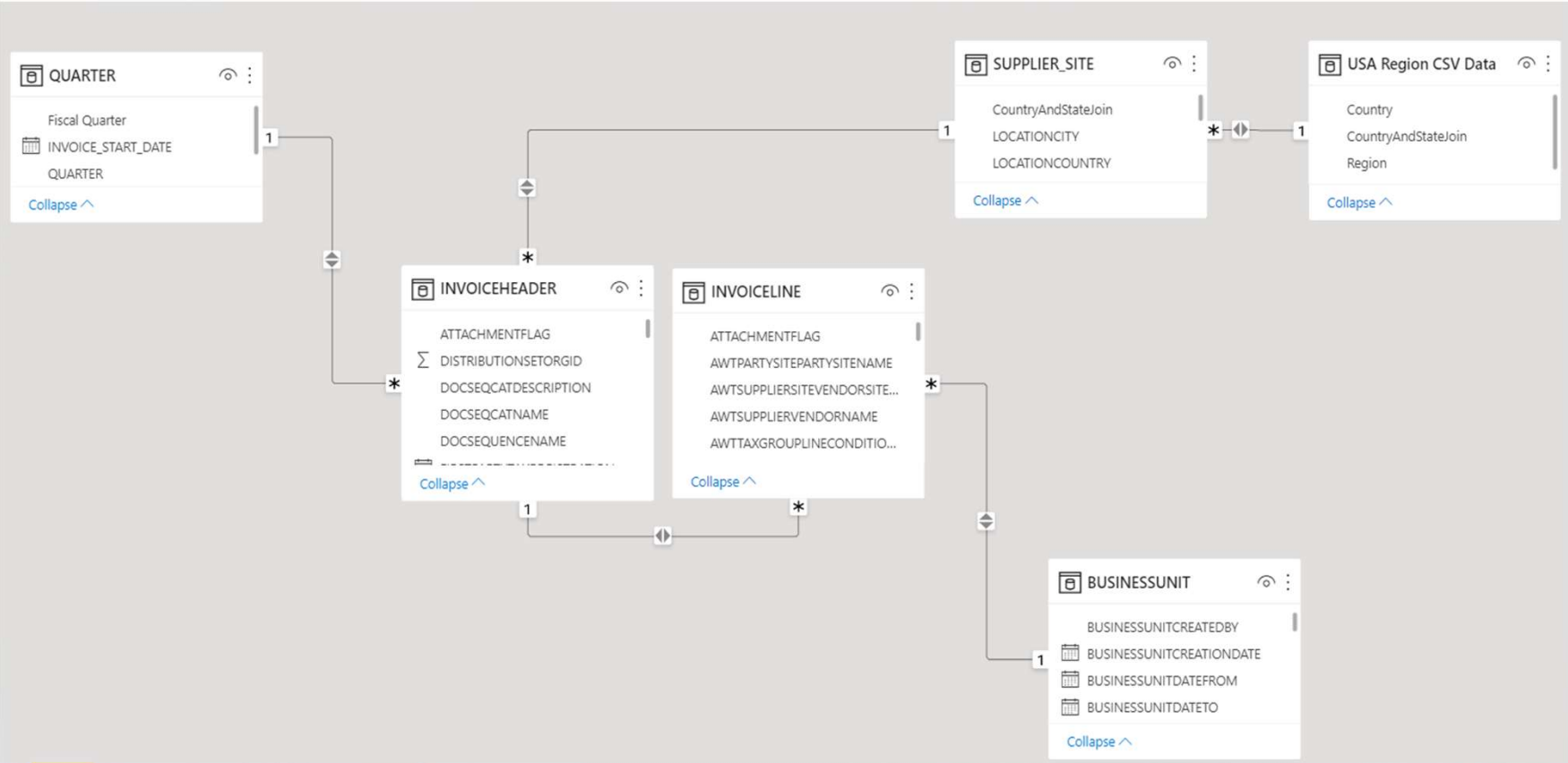


## Step8 : Run ODI Mappings

Select the Mapping and run the job



# Step 9 : Power BI – Data Model



## Step 9 : Power BI - Visualizations



**Region** ▼  
 All ▼

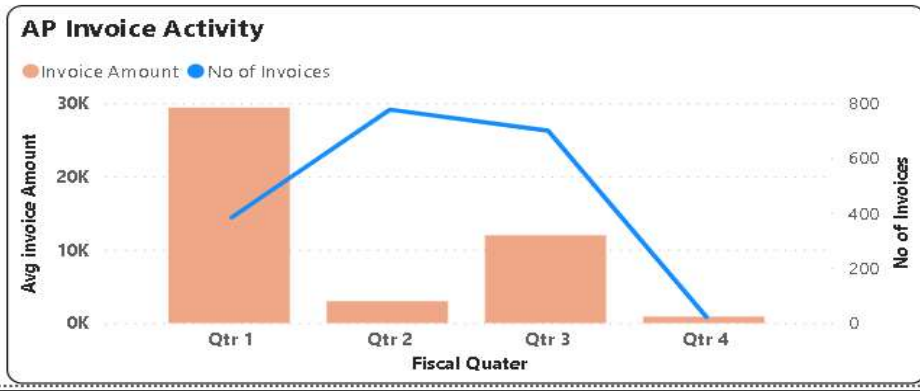
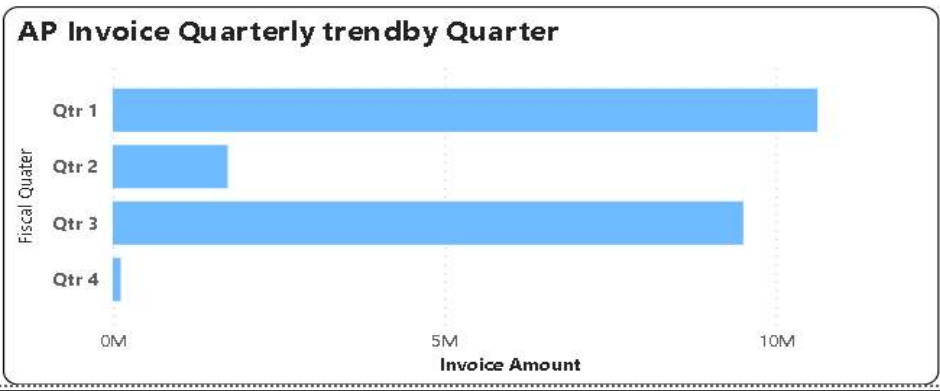
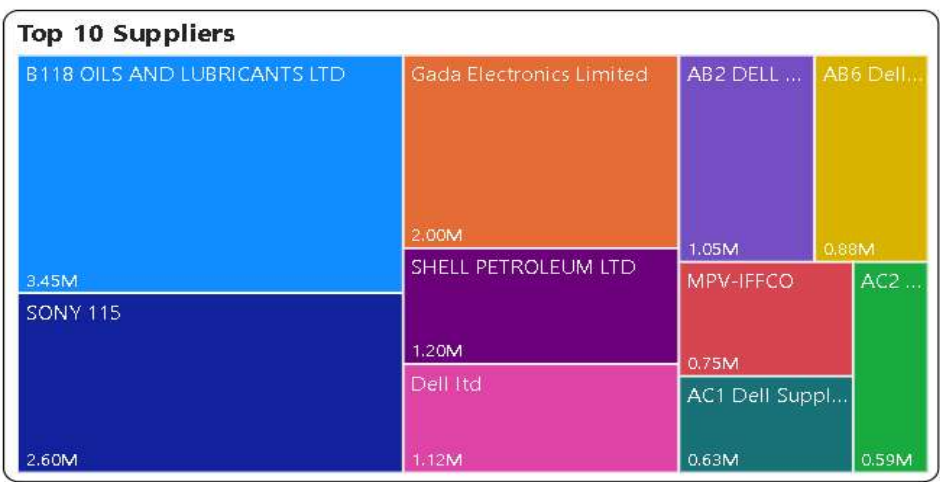
**Year, Quarter** ▼  
 2021 ▼

**Business Unit** ▼  
 All ▼

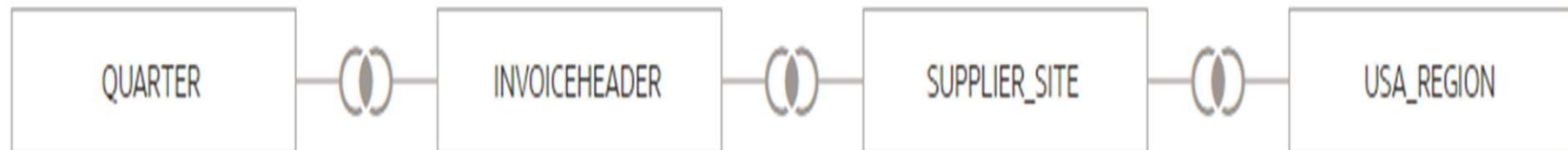
**Total Invoices**  
1,881

**Total Invoices**  
21.99M

**Foreign Currency Invoices**  
120



## Step10 : OACS – Data Model



# Step10 : OACS - Visualizations

