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

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.)

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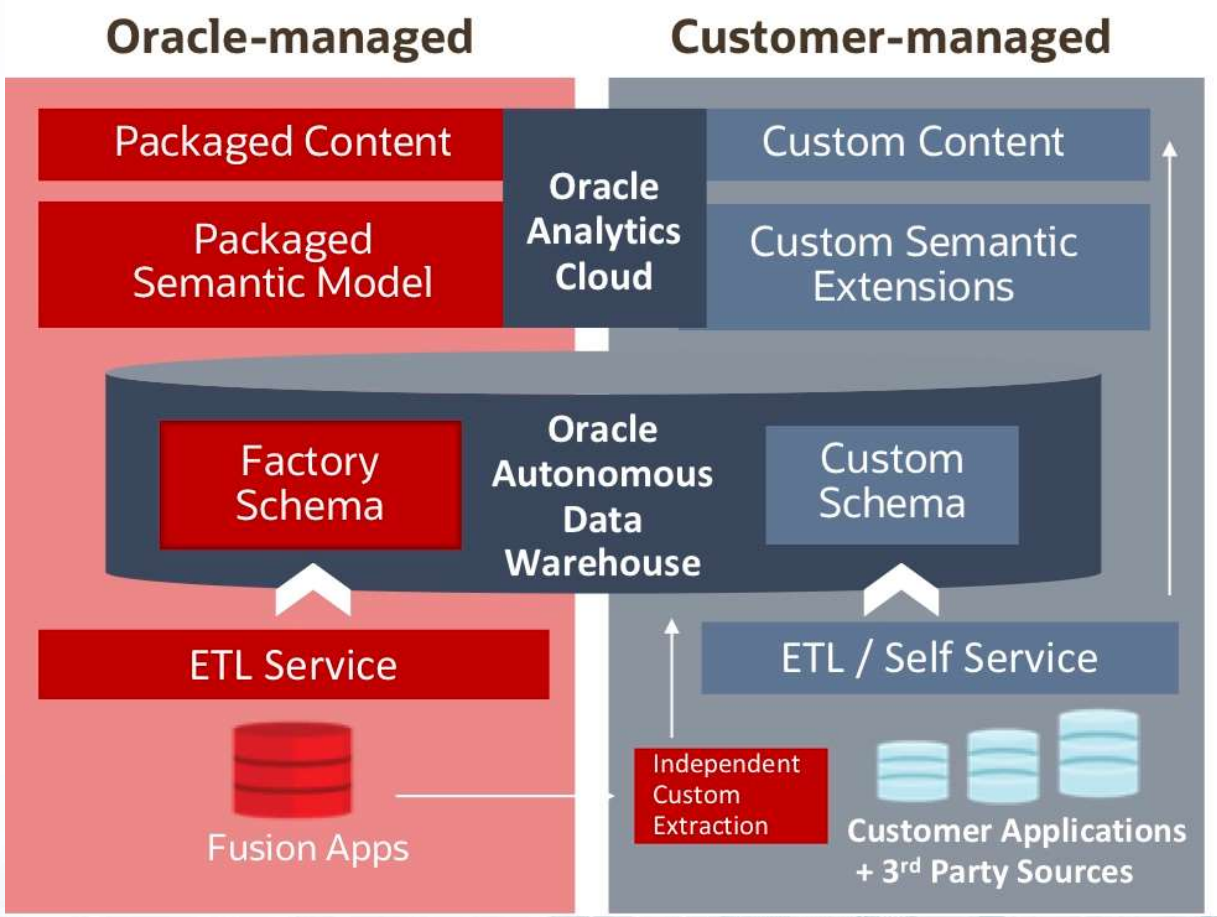
Architecture Diagram

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



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Data Extensibility Case Study

Scenario:

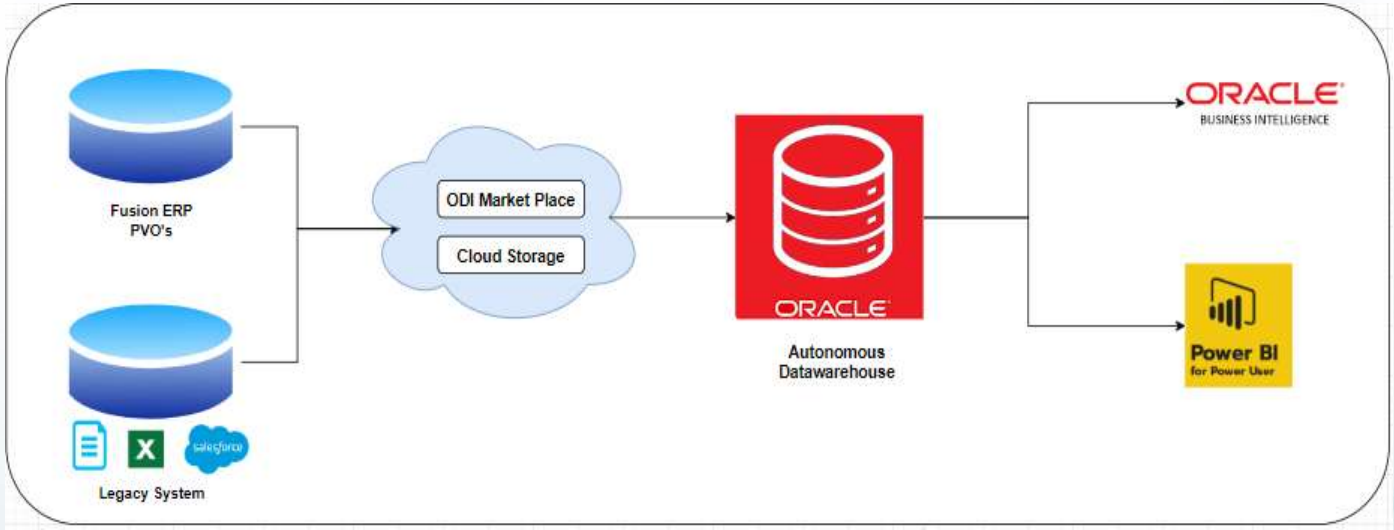
Extract Fusion VO's related to AP Invoices, Supplier Site, Business Unit and Combine the model with Custom Dataset of Country, State and Region.s

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



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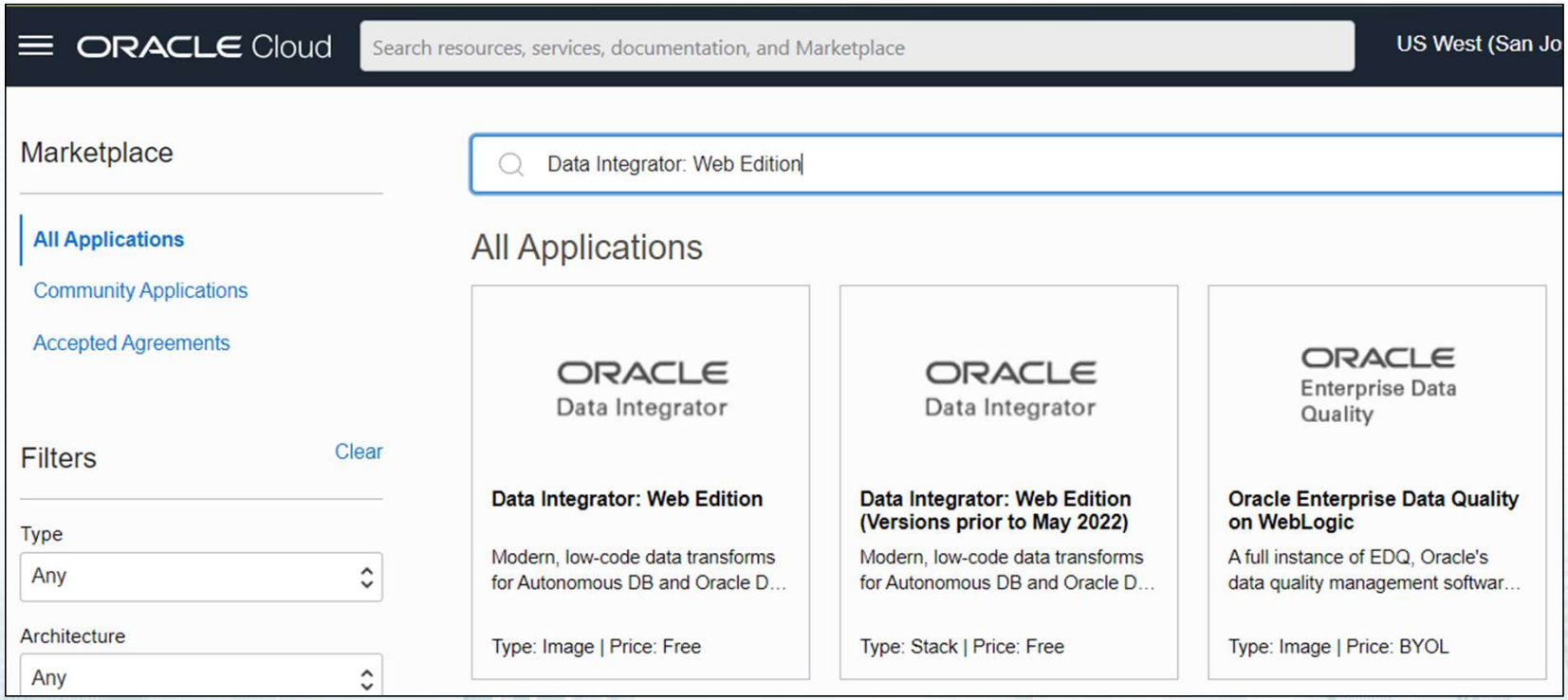
Step1 : Provisioning ODI Market Place

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



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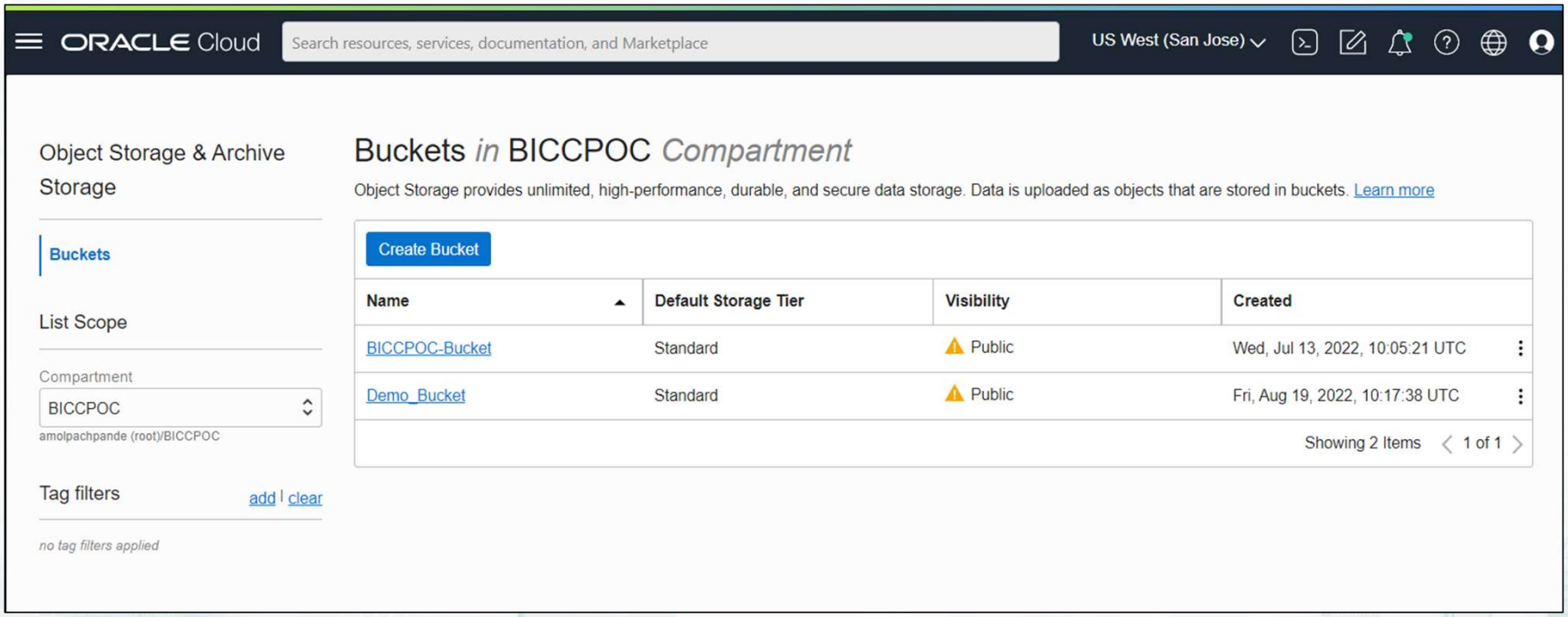
Step2 : Configure Oracle Object Storage

Search for Object Storage >> Bucket >> Create Bucket



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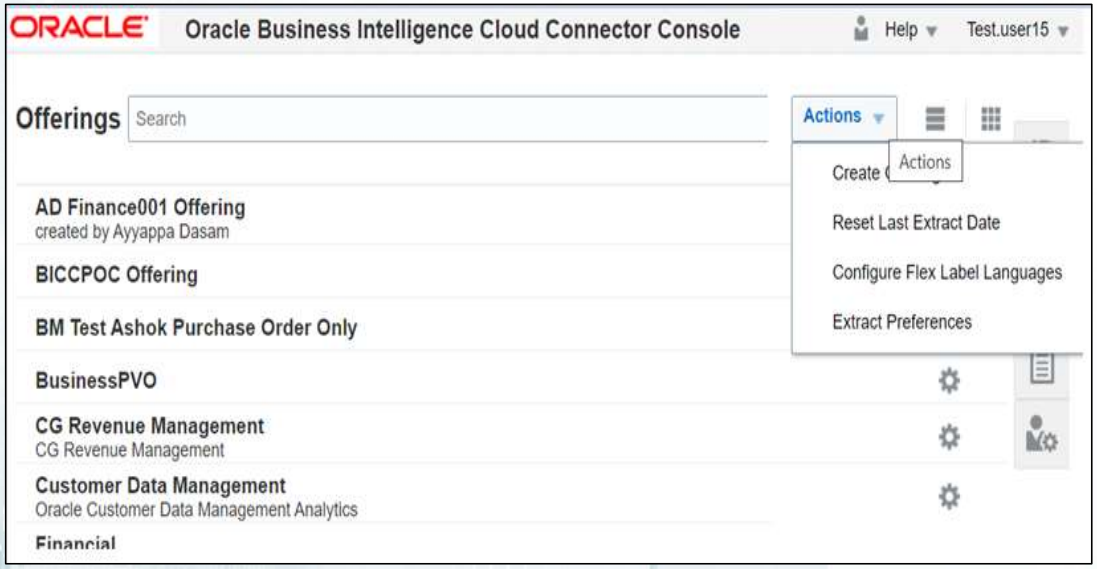
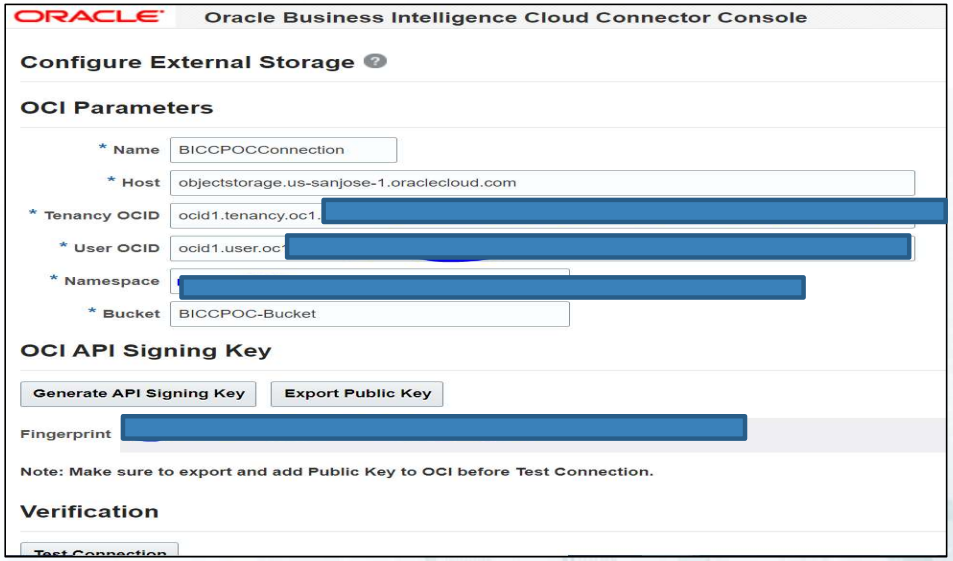
Step3 : Configure BICC Connector

Go-to Fusion ERP URL/biacm

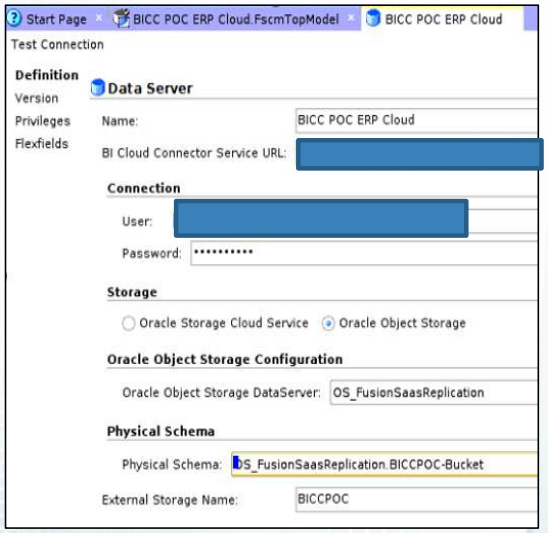
1. Create Offering of PVO's(Click on Manage Offering and Data Stores>>Actions)
2. Create External Connection(Click on Configure External Storage >> OCI Object Storage Connection

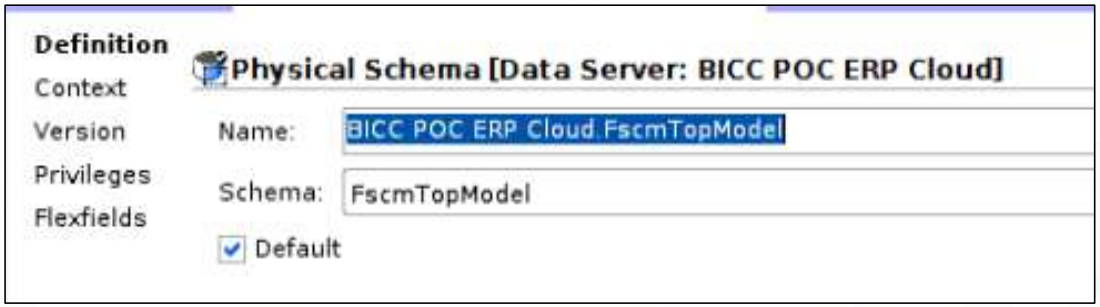




Step4: Configure ODI Topology

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





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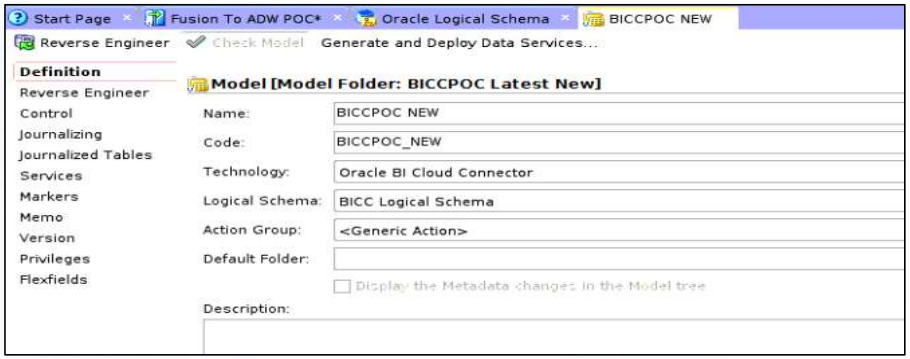
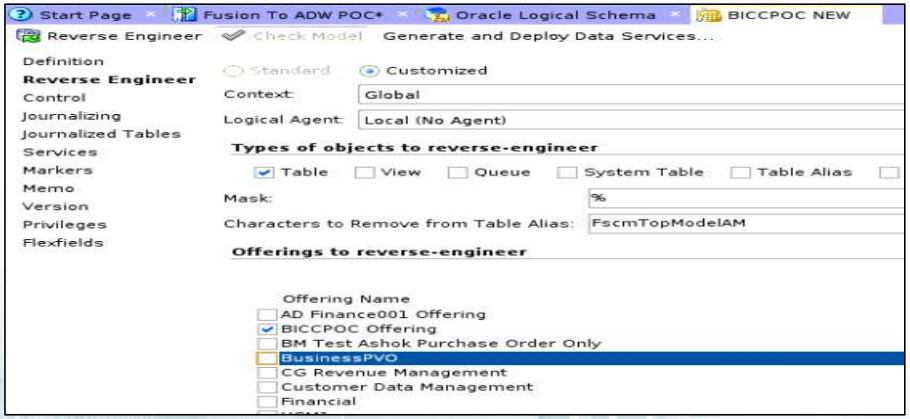
Step5 : Create ODI Models

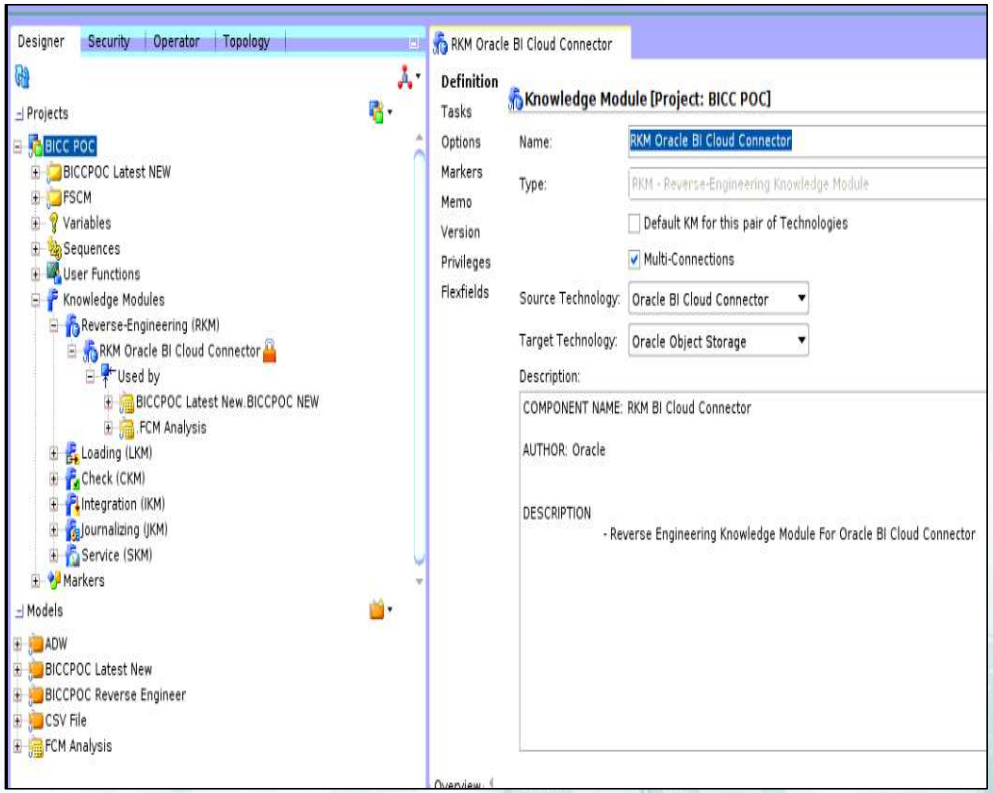
Create and select the offering in model and do the reverse engineering





Step6 : Configure Knowledge Modules in ODI

Import Knowledge Module for Oracle BICC Connector



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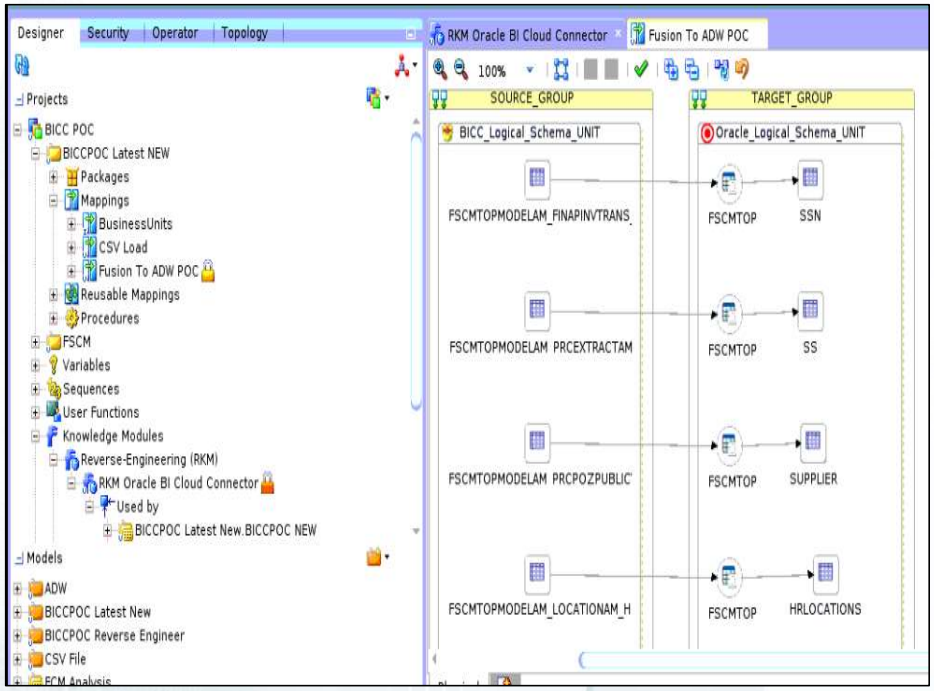
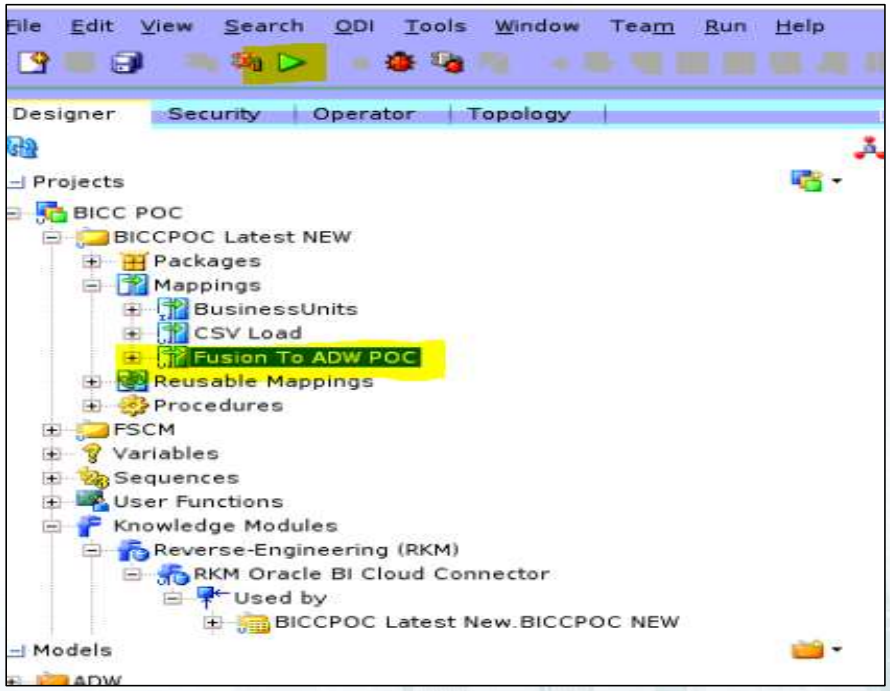
Step7 : Create ODI Project and Mapping

Create one folder and then create the mapping



Step8 : Run ODI Mappings

Select the Mapping and run the job



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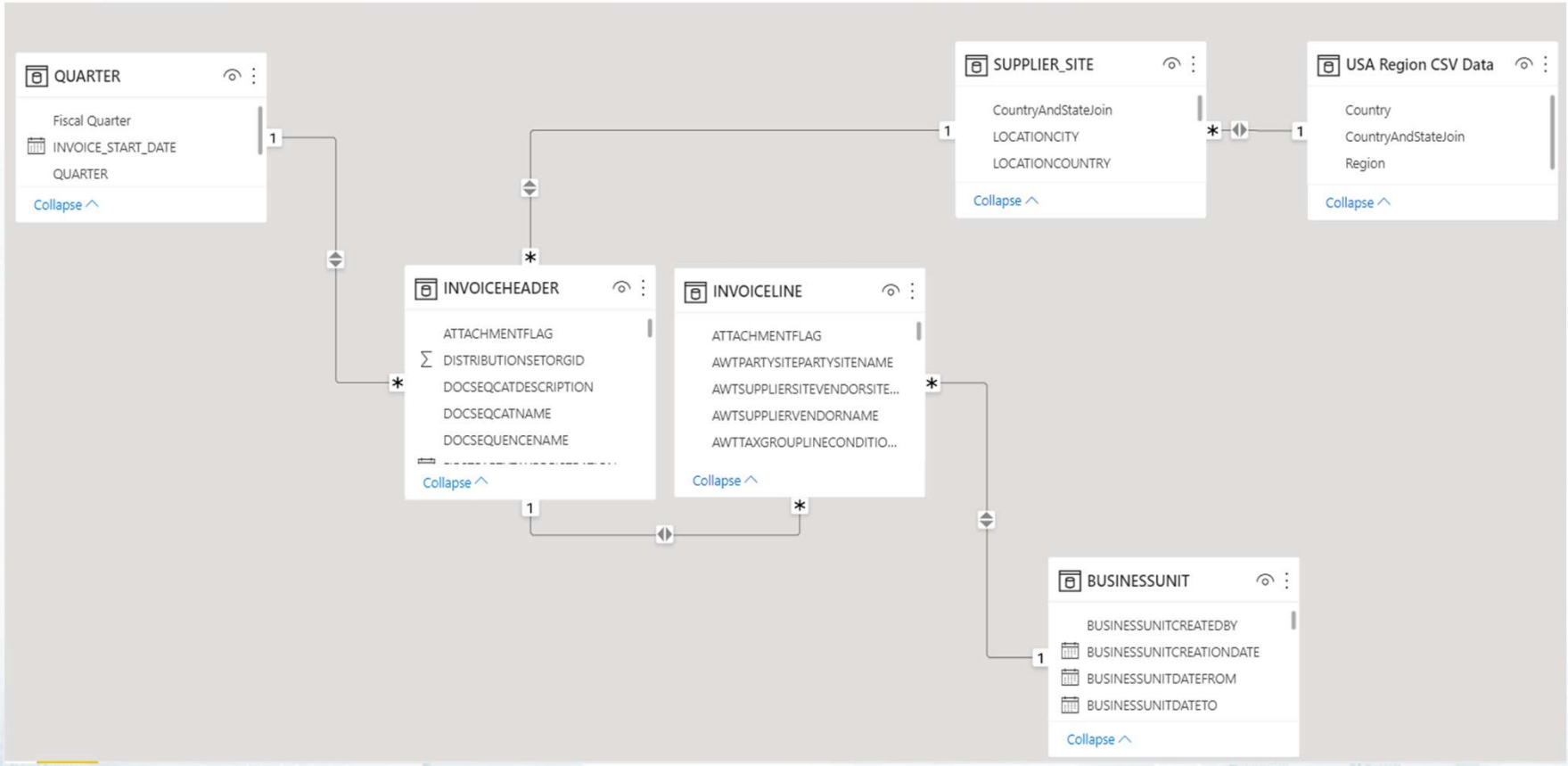
Step9 : Power BI – Data Model



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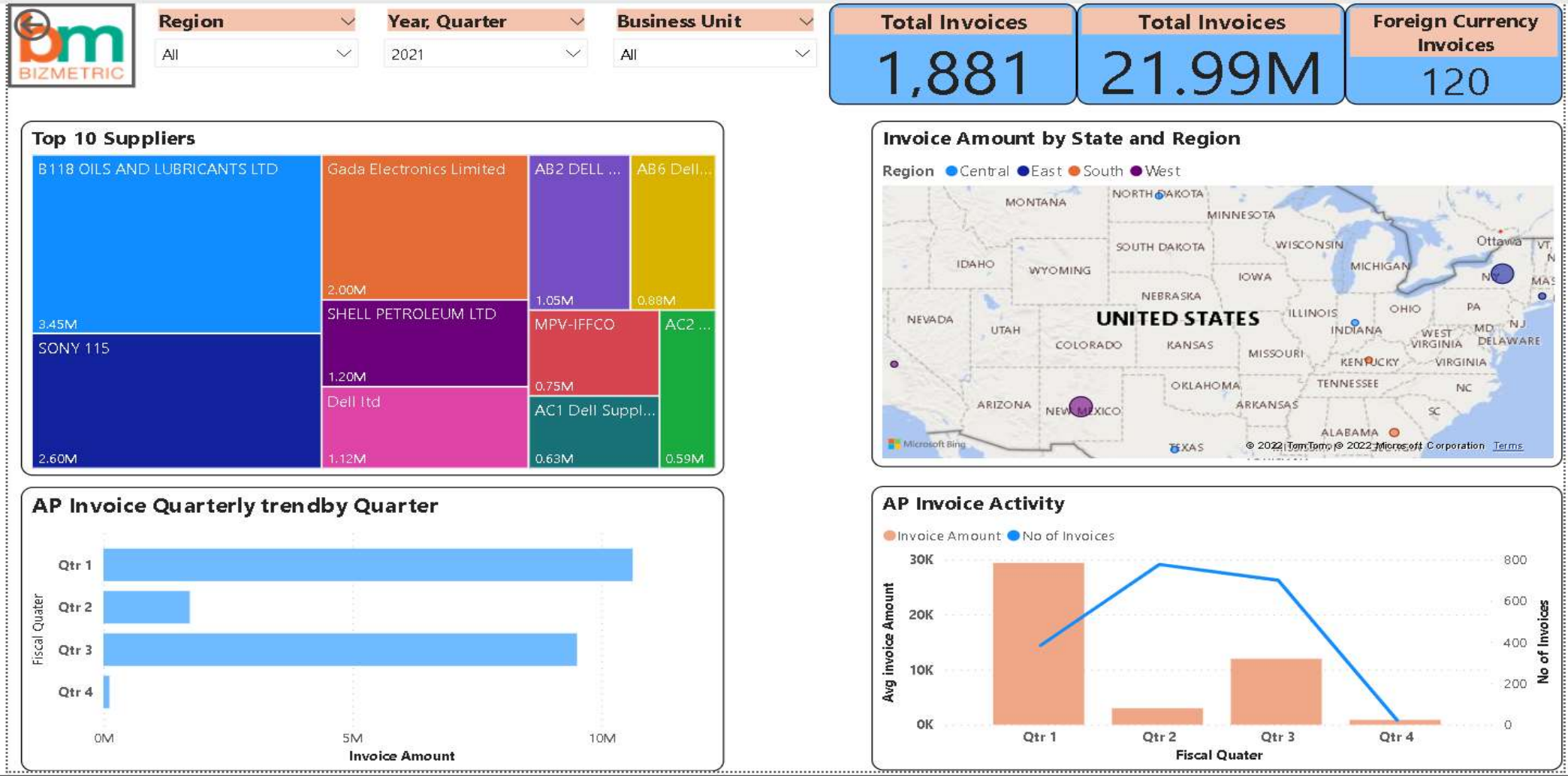
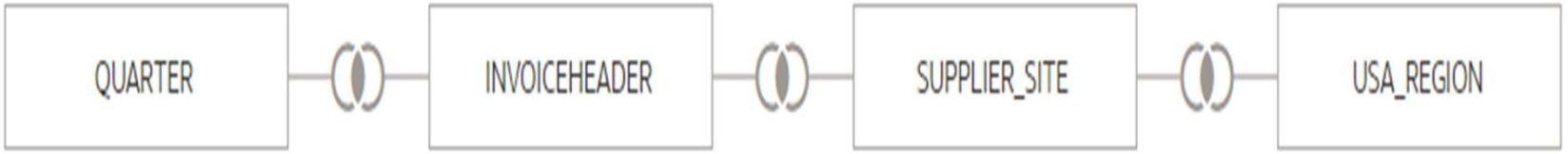
Step9 : Power BI - Visualizations



Step10 : OACS – Data Model



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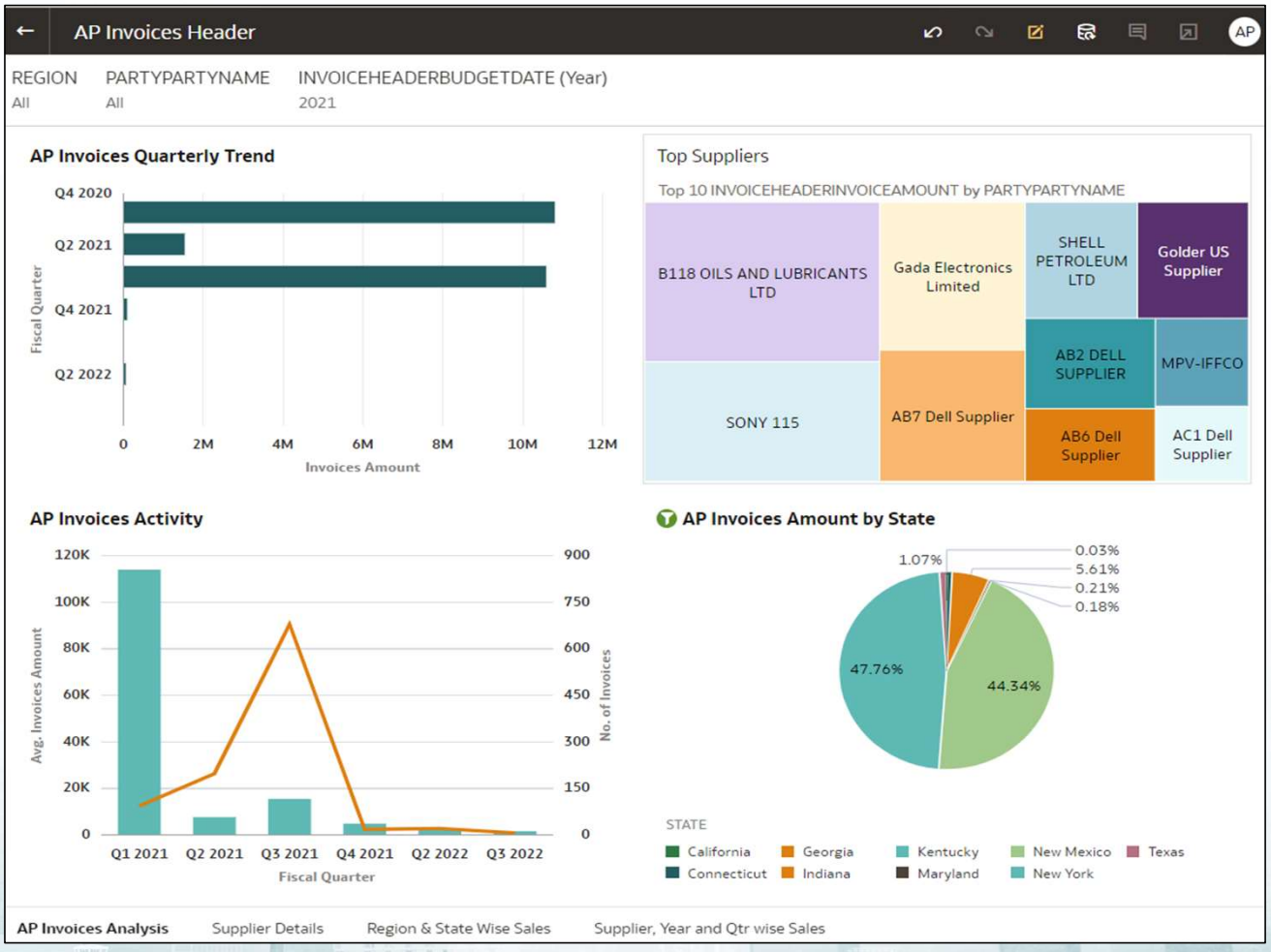
Step10 : OACS - Visualizations



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