E-Commerce Data Lakehouse Implementation and Analysis 526-05

Chaitanya Bejjanki

Simranjeet Kaur Gill

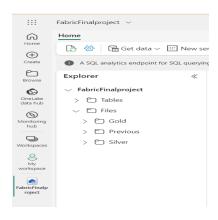
Firstly we have taken Data from Kagle has E-commerce website which it consists of sales & returns Sheets.

we have created a new Fabric Lake House and created sub folders as:

Previous

Silver

Gold



Created a Bronze_Notebook in Microsoft _Fabric to read my data set from my local system and used pandas to read my excel file and used pandas to join condition to combine Sales and Returns file.

And Saved it as Bronze_Sales.parquet in Fabric Lakehouse

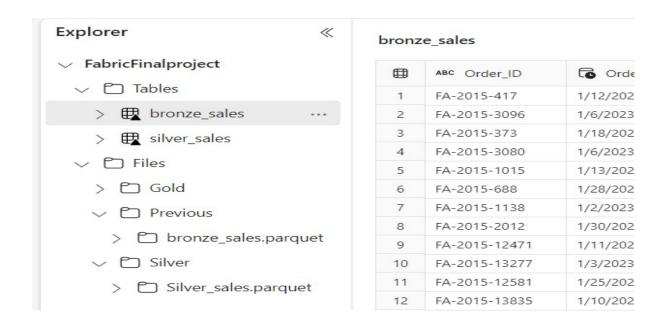
Later created a pipe line to copy a parquet file into azure blob storage container.

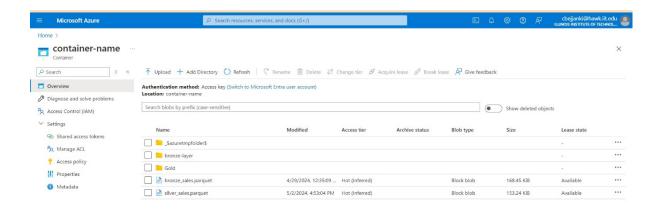
Now Created a Silver_Notebook file and readed data from Azure blob storage (Bronze_Sales.parquet)

Now I used Duckdb to read parquet file and added 2 new columns as Created_date and Modified_Date removed Duplicates from it

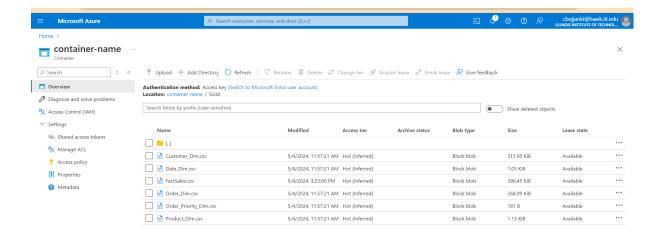
Saved it as Silver sales.parquet into my fabric lakehouse

Now created a pipeline to load this data into Azure blob storage.

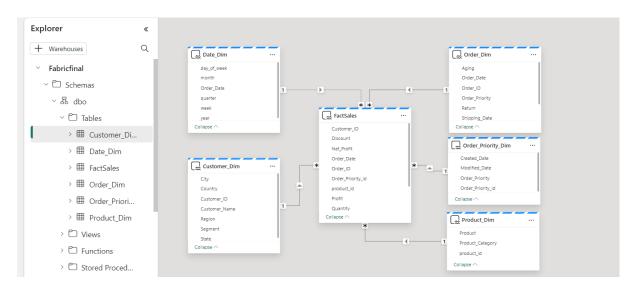




Now created a Gold_Notebook into fabric notebook I have used Duck DB to create dimensions and fact tables. Saved it into csv files,



Now we have created a pipeline to load this data into fabric Data warehouse added all csv files into tables in Fabric warehouse



Later added all these warehouse into power bi through power BI semantic model in power bi visualization.

Added this ware house into power bi created reports.

