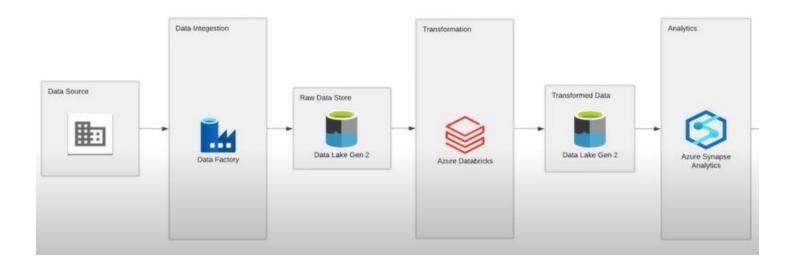
Tokyo Olympic End-to-End Data Engineering Project

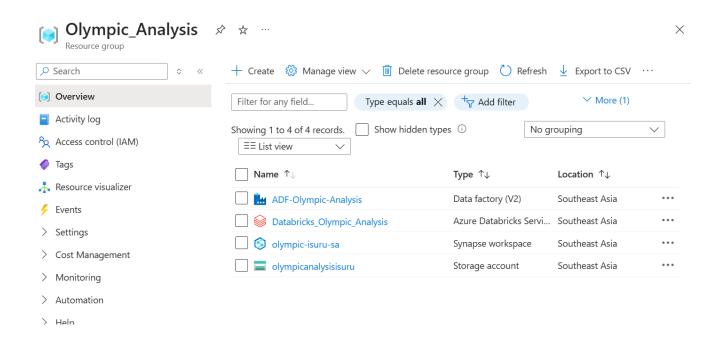


❖ Resources Used

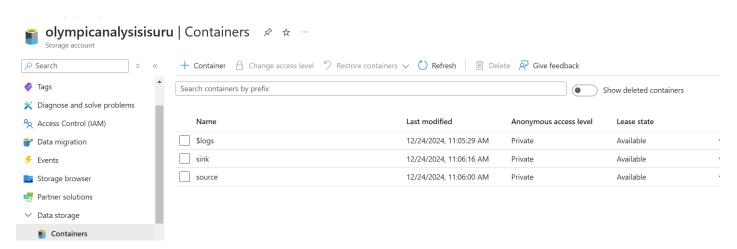
- > Azure Data Lake
- ➤ Azure Data Factory
- ➤ Databricks
- ➤ Synapse Analytics

Steps Followed

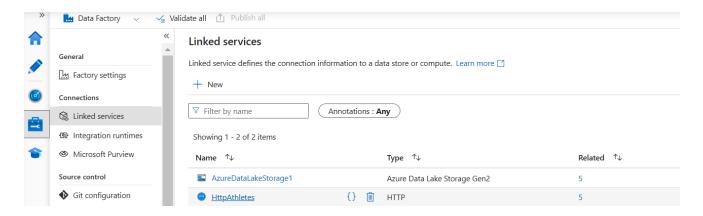
Creating Resources Group



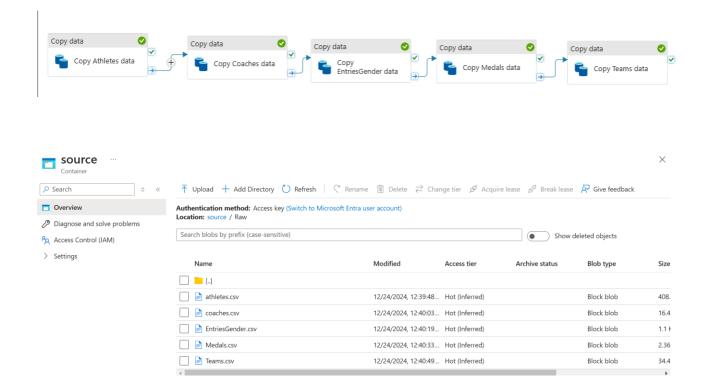
- Creating a data lake using the storage account
 - Creating two containers
 - Source
 - Sink



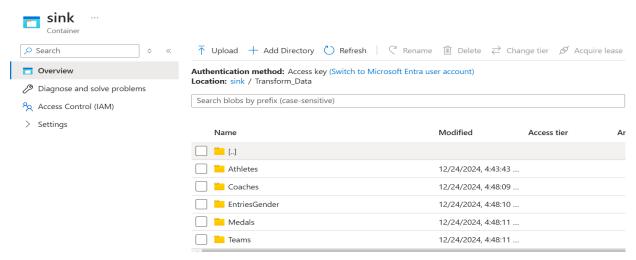
- Creating ADF
 - Creating two link services
 - Data lake
 - Git Hub



- Creating copy activities for extracting data from the git hub repository to the data lake → Source (inside the raw folder).
- Creating copy activity for each data set to load the data set into the data lake.



- Create Databricks workspace
 - Create cluster (Single Node)
 - Create a workspace and make a notebook for transformation
 - Create a mount to link Azure Data Lake and Databricks.
 - o Do the transformation and finally load that data into the data lake.



- Create a Synapse analytics workspace
 - Create Database
 - After making tables for each data set inside the data lake sink container.
 - o Create SQL Script for analyse the data
- Databricks Notebook : Olympic Transformation.ipynb
- Synapse Analytics SQL Query: Synpase Analytics SQL Script