**Step 1: Created a Container in My Storage Account**

Within the Storage Account, I created a container to serve as a dedicated folder for storing my Olympic data.

**Step 2: Ingested Data using Azure Data Factory**

To move the Olympic dataset into Azure, I set up an Azure Data Factory.

Inside Data Factory, I created a data pipeline that defined the entire data ingestion process.

I configured this pipeline to fetch data from external sources, and load it directly into my Azure Data Lake Storage Gen2 container.

Activities like the "Copy Data" activity allowed me to efficiently transfer data from source to destination.

**Step 3: Connected Data Lake Storage to Databricks**

In my Azure Databricks workspace, I established a connection to my Azure Data Lake Storage Gen2 account.

This connection enabled Databricks to access and manipulate the data residing in the Data Lake Storage.

**Step 4: Created a Databricks Cluster and Transformed Data**

With Databricks, I set up a virtual machine cluster configured for data processing and analysis.

Using Apache Spark within Databricks notebooks, I wrote code to perform various data transformations. These included changing data types, filtering data, and performing data aggregation tasks.

To optimize data for analytics, I converted it into the Apache Parquet.

Finally, I stored the transformed data back into my Data Lake Storage Gen2 container.

**Step 5: Connected Synapse Analytics for EDA**

Next, I established an Azure Synapse Analytics workspace.

Within Synapse Studio, I created a connection to both my Data Lake Storage Gen2 and the transformed data.

I conducted exploratory data analysis (EDA) using T-SQL queries within Synapse SQL pools. These queries helped me analyze data, calculate statistics, and visualize data distributions.

**Step 6: Wrote SQL Queries and Exported as .csv**

Using Synapse Studio, I authored SQL queries to extract valuable insights from the data.

To share and work with the results, I exported the outputs of my SQL queries as .csv files..

**Step 7: Imported Data into Power BI for Visualization**

To visualize the insights from my data, I launched Power BI Desktop, a business analytics tool.

Using Power BI's "Get Data" functionality, I imported the .csv files I had created in the previous step.

Within Power BI, I designed compelling visualizations.