Process

- 1. First I imported the required libraries
- 2. Instantiate global variables
- 3. Define global functions
 - a. Get sql dataframe
 - b. Get mongo dataframe
 - c. Set mongo collection
- 4. Populate dimensions by ingesting reference data
 - a. Fetch the reference data from an azure sql database
 - i. Create a new databricks metadata database
 - ii. Create a new table that sources its data from a view in an azure sql database
 - iii. Create a new table that sources its data from the other table in my azure sql database
 - b. Fetch reference data from a mongoDB atlas database
 - i. View the data files on the databricks file system
 - ii. Create a new MongoDB database and load json data into a new MongoDB collection
 - iii. Fetch data from the new MongoDB collection
 - iv. Use the spark dataframe to create a new table in the databricks metadata database
 - v. Query the new table in the databricks metadata database
- 5. Fetch data from a file system
 - a. Use pyspark to read from a csv file
 - b. Verify the dimension tables
- 6. Integrate reference data with real-time data
 - a. Use autoloader to process streaming data
 - b. Process the raw JSON data
 - c. Perform aggregations