Azure Databricks Case Study

Submitted By- Aniroop Gupta DE BATCH-1

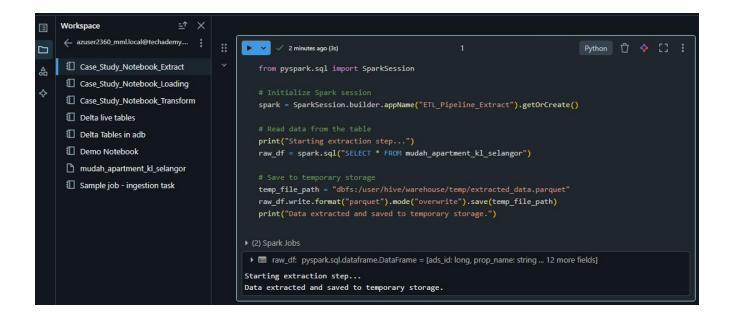
Task given: Create an ETL pipeline of ingestion & transform and load queries on any data set and initiate the pipeline from workflow using the notebook.

Steps:

- Create a notebook with ETL queries.
- Run the notebook from workflow pipeline in azure databricks workspace.

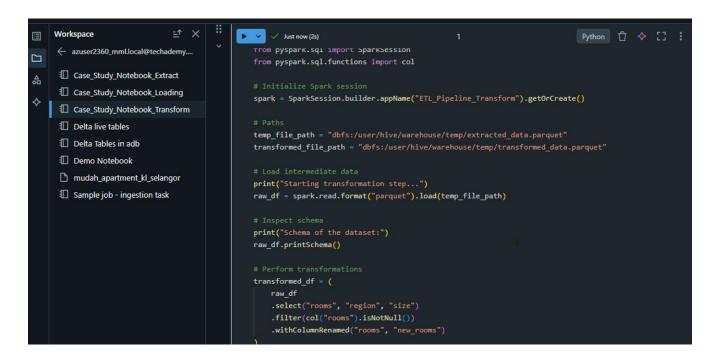
1. Notebook for Ingestion (Extract):

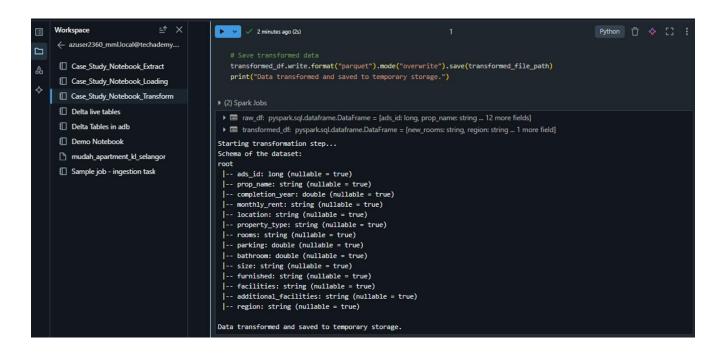
This notebook will load the raw data into the Databricks environment, either from a file or a table.



2. Notebook for Transformation

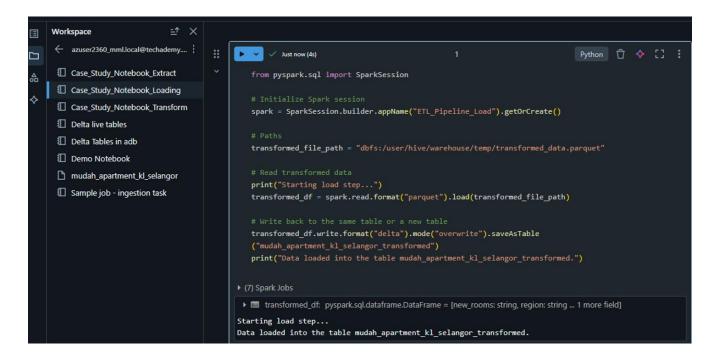
This notebook will read the extracted data, apply transformations, and prepare it for loading.





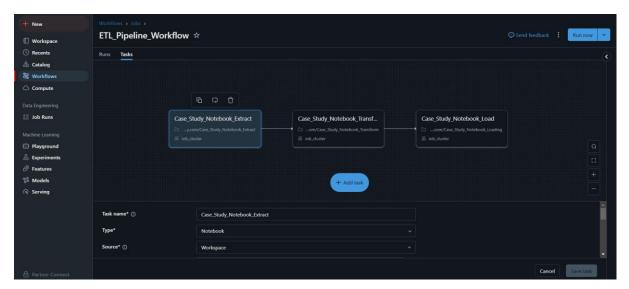
3. Notebook for Loading

This notebook will load the transformed data into the final destination, such as a Delta table or another storage format.

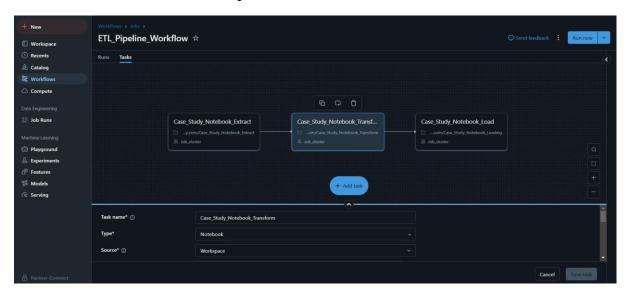


4. Creating Databricks Workflow:

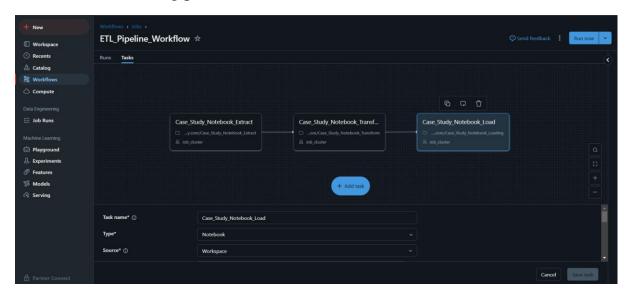
For Extract process-



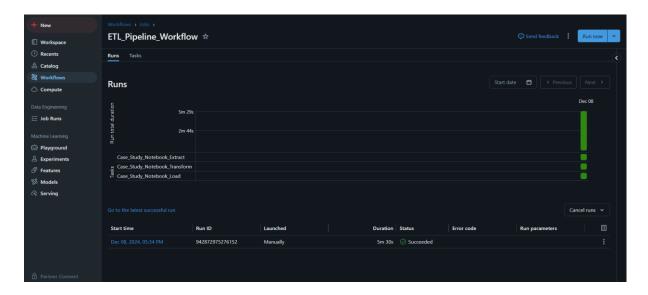
• For Transformation process-



• For Loading process-



5. Running the Workflows:



- Hence, The ETL Pipeline consisting processes of Extraction, Transformation, Loading has successfully created and running.