ASSESSMENT 1

STEP 1: EXTRACT DATA FROM SQL SERVER

```
jdbc_hostname = "snowyuva.database.windows.net"
jdbc_port = 1433
database_name = "mydatabase"
username = "yuva"
password = "Theshitha3102004
jdbc url = f"jdbc:sqlserver://{jdbc hostname}:{jdbc port};databaseName={database name}"
connection properties = {
  "user": username,
  "password": password,
  "driver": "com.microsoft.sqlserver.jdbc.SQLServerDriver"
}
# Load data from a table (e
sales_df = spark.read.jdbc(
  url=jdbc_url,
  table="dbo.Sales",
  properties=connection_properties
)
# Preview data
sales_df.show()
INSTALL SNOWFLAKES
%pip install snowflake-connector-python[pandas]
%restart_python
%pip install snowflake-snowpark-python
%restart_python
```

STEP 2: TRANSFORM DATA IN DATABRICKS USING SNOWPARK

```
from snowflake.snowpark import Session
from snowflake.snowpark.functions import col, upper
# Define Snowflake connection parameters
connection_parameters = {
  "account": "KTDXQBL-XH96284",
  "user": "yuva",
  "password": "Yuvasri@310",
  "role": "SYSADMIN",
  "warehouse": "COMPUTE_WH",
  "database": "AZURE SNOWPARK",
  "schema": "MY_SCHEMA"
}
# Create Snowflake session
session = Session.builder.configs(connection_parameters).create()
# Convert PySpark DataFrame to Pandas
sales_pd = sales_df.toPandas()
# Create Snowpark DataFrame from Pandas DataFrame
snowpark_df = session.create_dataframe(sales_pd)
# Apply transformations using quoted column names
snowpark_df = (
  snowpark_df.filter(col("'Amount"') > 100)
  .with_column("CustomerName", upper(col("CustomerName")))
)
# Display the transformed Snowpark DataFrame
display(snowpark df)
```

STEP 3: LOAD DATA INTO SNOWFLAKE

Write the transformed Snowpark DataFrame to a table in Snowflake snowpark_df.write.save_as_table("SALES_CLEANED", mode="overwrite")

STEP 4: VERIFY IN SNOWFLAKE

Load the table back into Snowpark

loaded_df = session.table("SALES_CLEANED")

Preview data

loaded_df.show()

STEP5: VERIFY IN SNOWFLAKE

RUN THIS IN SNOWFLAKE:

USE DATABASE AZURE_SNOWPARK;

USE SCHEMA MY_SCHEMA;

SELECT * FROM SALES_CLEANED;