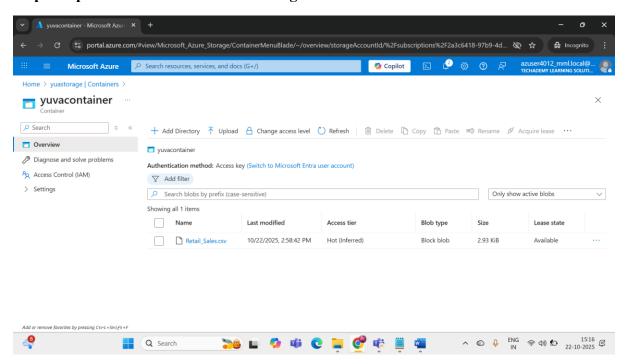
Case Study

Azure → Snowflake with Snowpark, then Power BI Scenario You're the data engineer at ItTechGenie Retail. Sales teams drop monthly CSVs into an Azure Storage container. You must: upload the CSV to Azure, ingest it into Snowflake using Snowpark, model it into proper database/schema/table, and build a quick Power BI report for business users.

Step 1: Upload CSV to Azure Blob Storage



Step 2: Connect Azure to Snowflake (External Stage)

CREATE OR REPLACE DATABASE RETAIL DB;

USE DATABASE RETAIL DB;

CREATE SCHEMA SALES SCHEMA;

USE SCHEMA SALES_SCHEMA;

CREATE OR REPLACE STAGE azure stage sales

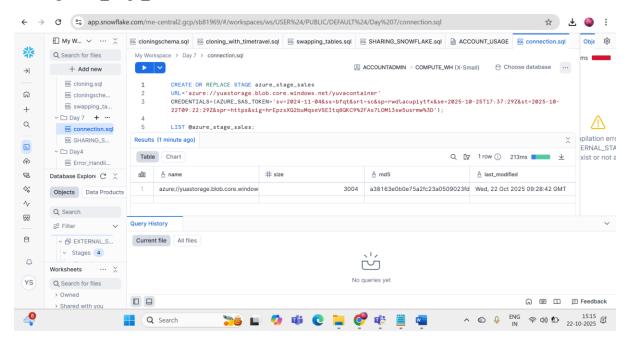
URL='azure://yuastorage.blob.core.windows.net/yuvacontainer'

CREDENTIALS=(AZURE SAS TOKEN='sv=2024-11-

04&ss=bfqt&srt=sc&sp=rwdlacupiytfx&se=2025-10-25T17:37:29Z&st=2025-10-

22T09:22:29Z&spr=https&sig=hrEpzsXQ2buMqseVSEItq8QKC9%2FAs7LOM13sw5usrm w%3D');

LIST @azure stage sales;



Step 3: Ingest Data Using Snowpark (Python)

```
from snowflake.snowpark import Session
import pandas as pd

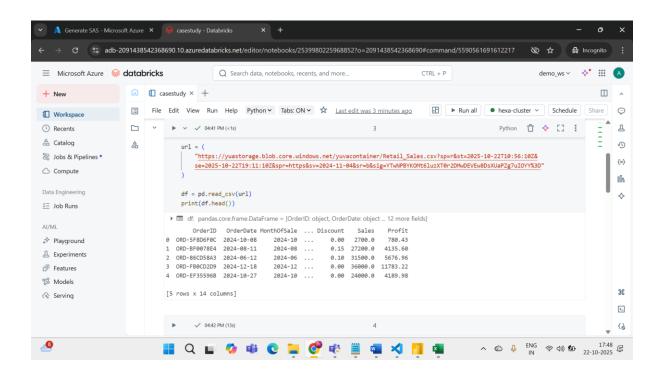
connection_parameters = {
    "account": "sb81969.me-central2.gcp",
    "user": "yuvasri310",
    "password": "Yuvasri3102004",
    "role": "SYSADMIN",
    "warehouse": "COMPUTE_WH",
    "database": "RETAIL_DB",
    "schema": "SALES_SCHEMA"
}

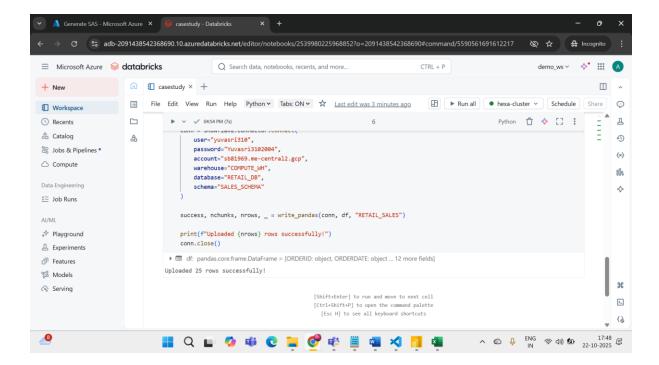
session = Session.builder.configs(connection_parameters).create()

df = pd.read_csv("Retail_Sales.csv")

snow df = session.create dataframe(df)
```

snow_df.write.save_as_table("retail_sales", mode="overwrite")
print("Retail Sales table created in Snowflake!")





Step 4: Create Database, Schema & Model Tables in Snowflake

CREATE OR REPLACE TABLE retail_sales (OrderID STRING, OrderDate STRING, MonthOfSale STRING, CustomerID STRING, CustomerName STRING, Country STRING, Region STRING, City STRING, Category STRING,

Quantity INT,

Discount FLOAT,

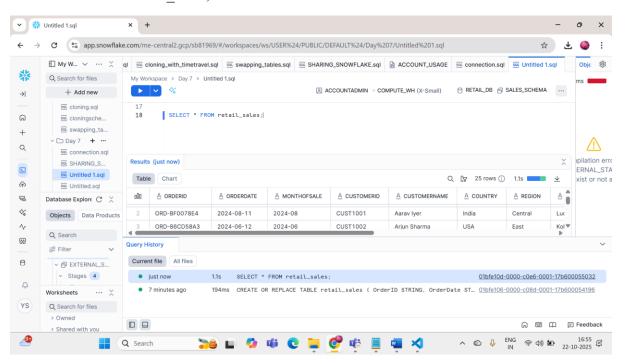
Subcategory STRING,

Sales FLOAT,

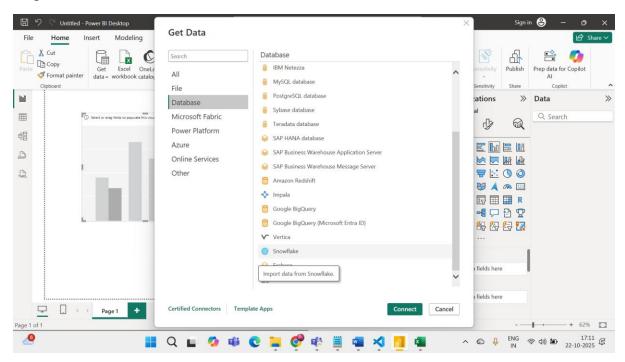
Profit FLOAT

);

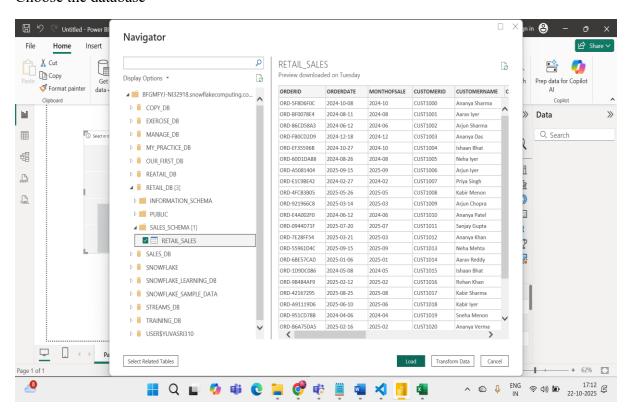
SELECT * FROM retail sales;

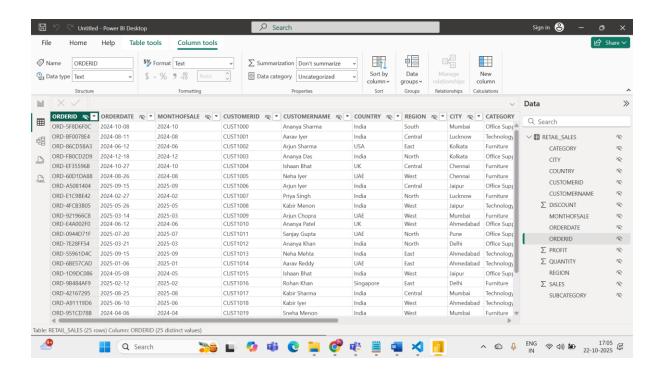


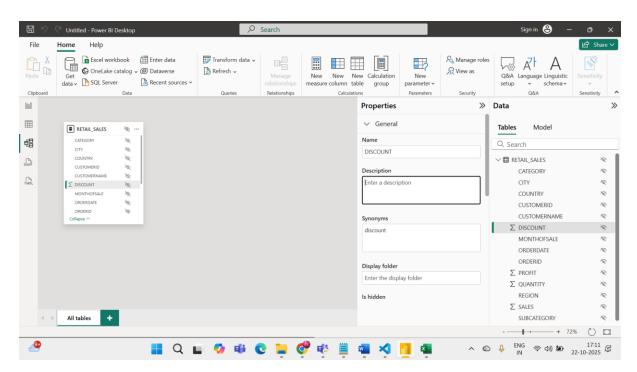
Step 5: Connect Power BI to Snowflake



Choose the database







Visual Representation:

