Case Study: Azure → Snowflake with Snowpark, then Power BI

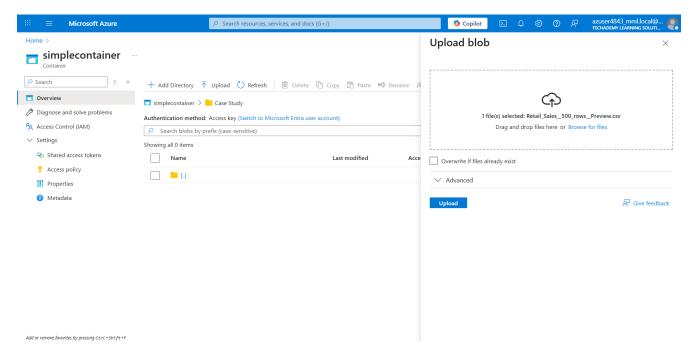
Scenario

You're the data engineer at **ItTechGenie Retail**. Sales teams drop monthly CSVs into an **Azure Storage** container. You must:

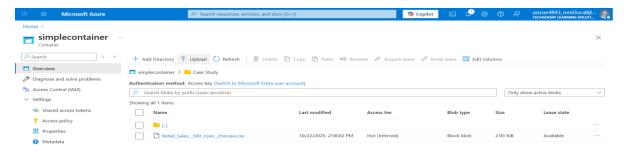
- 1. upload the CSV to Azure,
- 2. ingest it into Snowflake using Snowpark,
- 3. model it into proper database/schema/table, and
- 4. build a quick **Power BI** report for business users.

Steps

1. Upload the csv to Azure blob container



Uploading csv dataset to a directory inside blob container



File uploaded to Case study directory

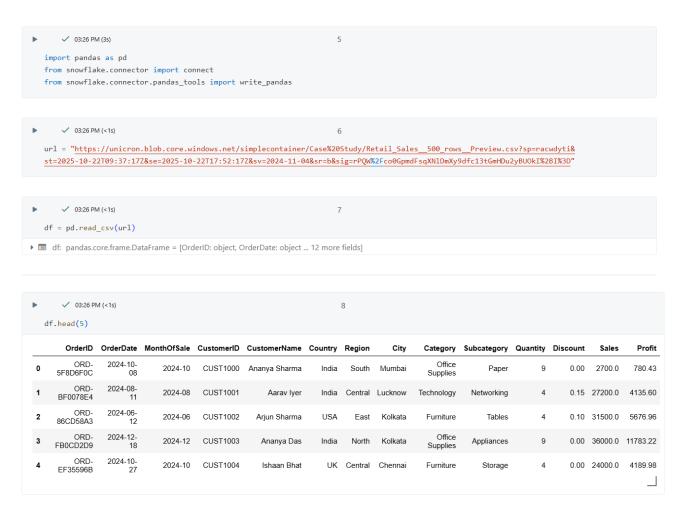
2. Ingest into snowflake as table using snowpark



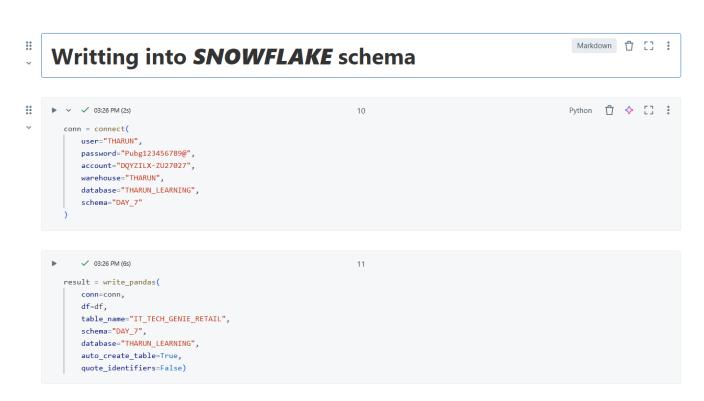
Installing required libraries



Reading from AZURE container using PANDAS



Reading SAS url using pandas



Using write_pandas() function to write Pandas.DataFrame to snowflake table

Verifying result



Verifying result if True the done.

3. Modeling into proper database/schema/table (Executeing from vscode connected to snowflake using extension)

Code:

SHOW TABLES;

Output:

(\bigcirc	created_on	name	database_name	schema_name	kind	comment
		2025-10-22 02:57:03.379	IT_TECH_GENIE_RETAIL	THARUN_LEARNING	DAY_7	TABLE	
		2025-10-21 21:16:43.358	USERS	THARUN_LEARNING	DAY_7	TABLE	

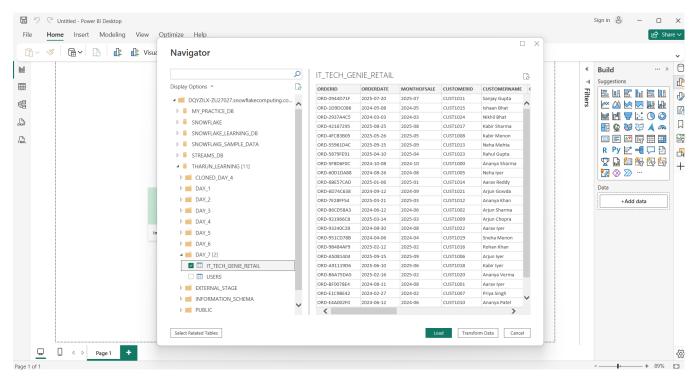
Code:

DESC TABLE IT TECH GENIE RETAIL;

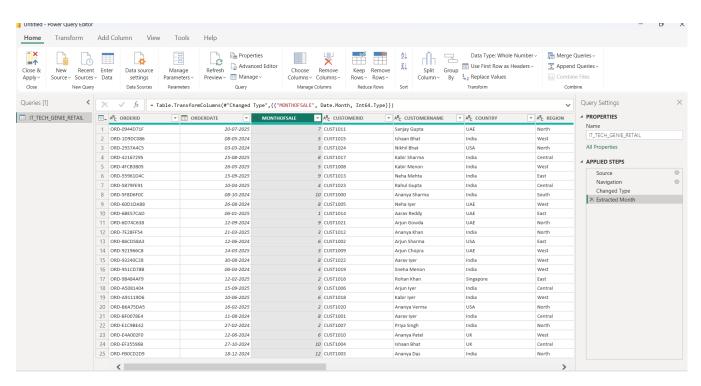
Output:

	name	type	kind	null?	default	primary key
1	ORDERID	VARCHAR(16777216)	COLUMN		null	Υ
2	ORDERDATE	VARCHAR(16777216)	COLUMN		null	N
3	MONTHOFSALE	VARCHAR(16777216)	COLUMN		null	N
4	CUSTOMERID	VARCHAR(16777216)	COLUMN		null	N
5	CUSTOMERNAME	VARCHAR(16777216)	COLUMN		null	N
6	COUNTRY	VARCHAR(16777216)	COLUMN		null	N
7	REGION	VARCHAR(16777216)	COLUMN		null	N
8	CITY	VARCHAR(16777216)	COLUMN		null	N
9	CATEGORY	VARCHAR(16777216)	COLUMN		null	N
10	SUBCATEGORY	VARCHAR(16777216)	COLUMN		null	N
11	QUANTITY	NUMBER(38,0)	COLUMN		null	N
12	DISCOUNT	FLOAT	COLUMN		null	N
13	SALES	FLOAT	COLUMN		null	N
14	PROFIT	FLOAT	COLUMN		null	N

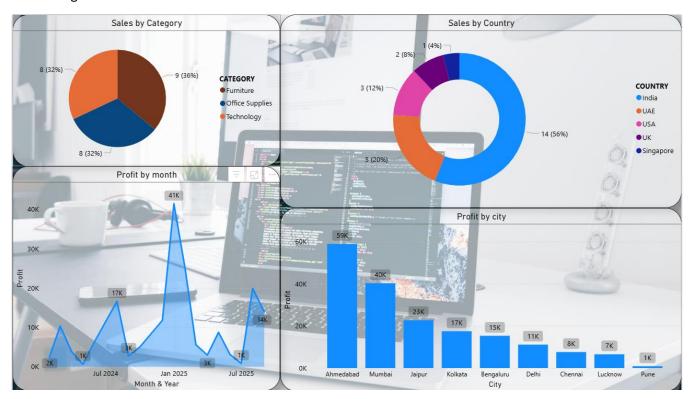
4. Build a quick Power BI report



Loading table from snowflake schema



Performing basic data transformation



A quick PowerBI report for business users.