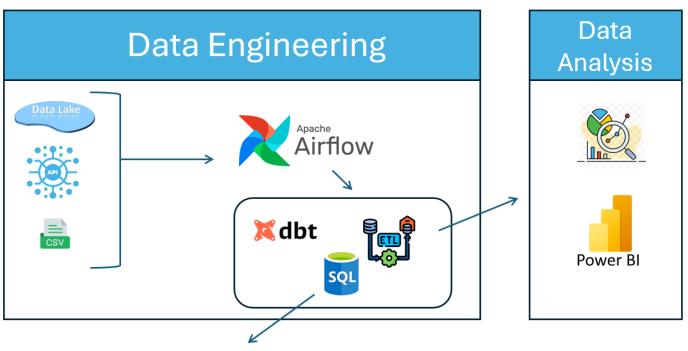
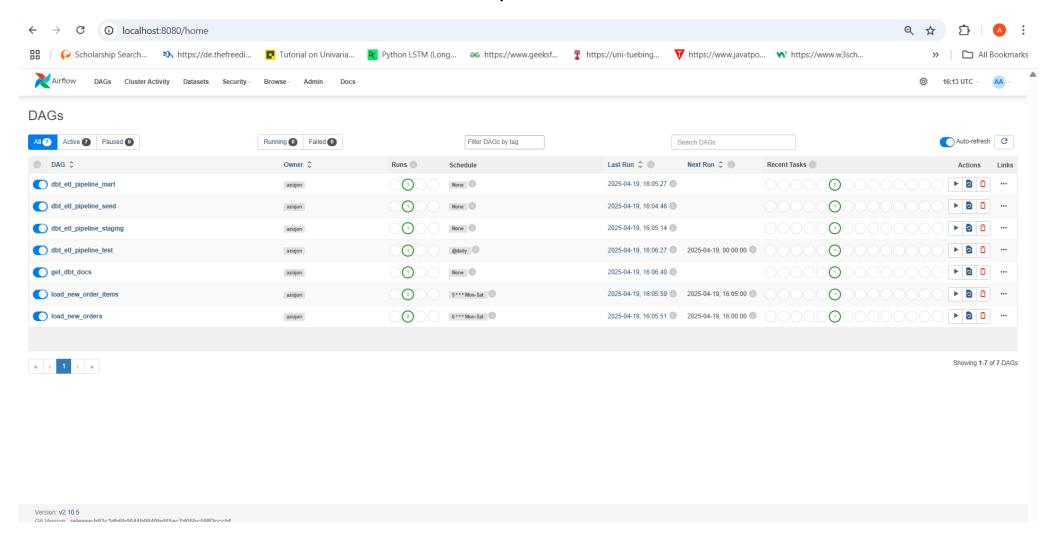
Sales Data Full Project

Workflow: Data Engineering + Data Analysis + Data Science

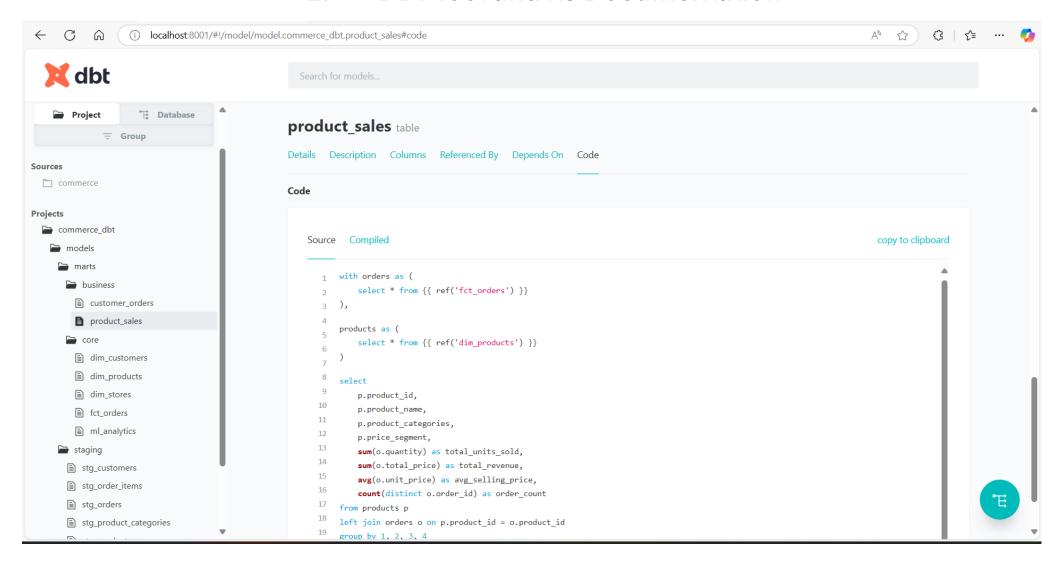




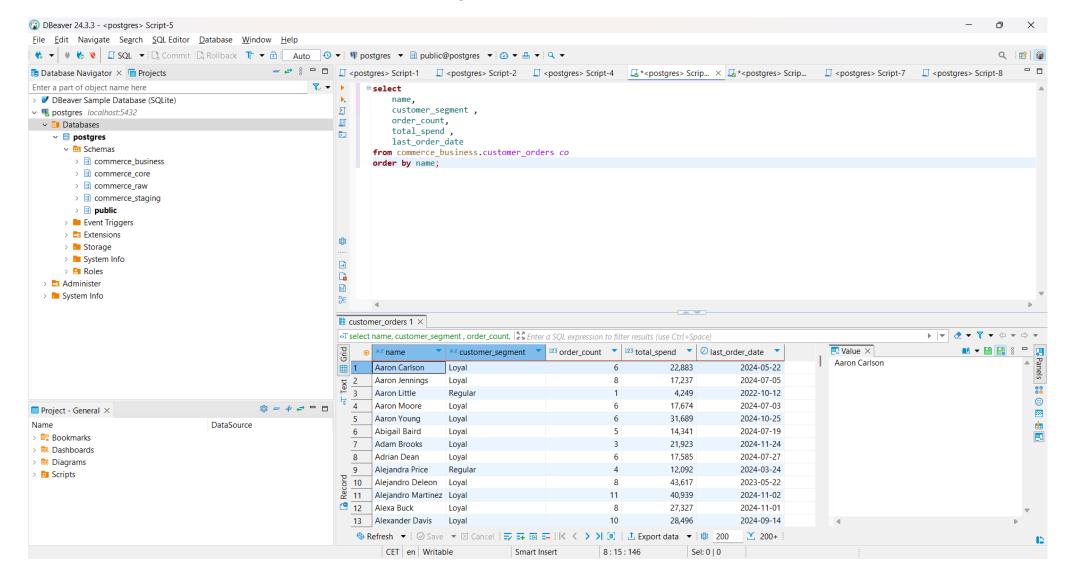
1. Apache Airflow



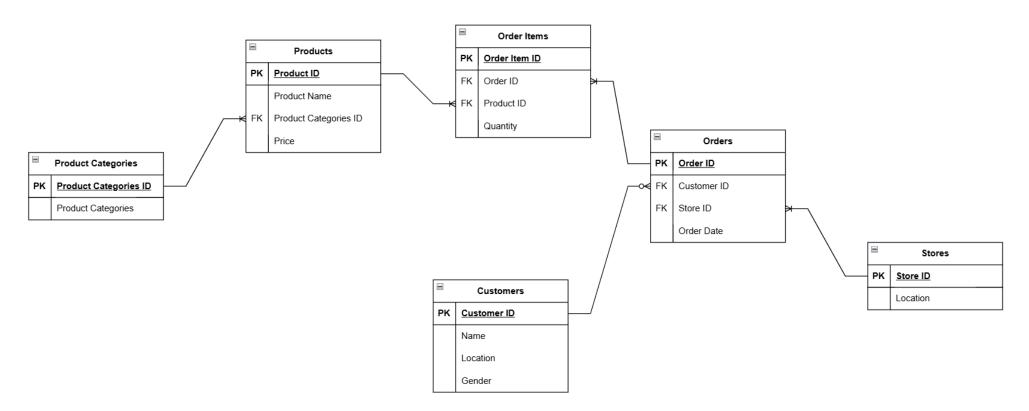
2. DBT Tool and its Documentation



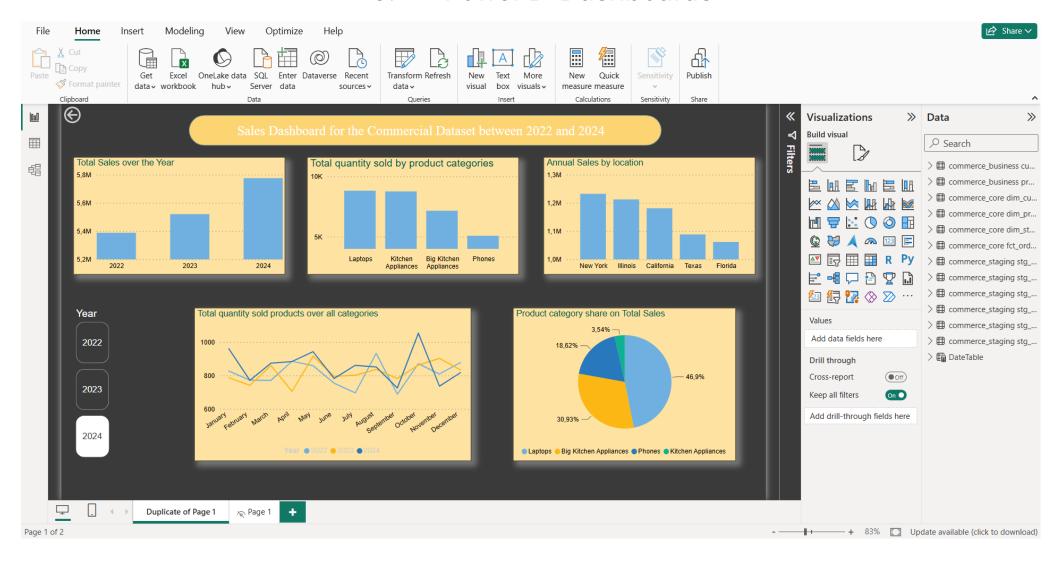
3. SQL Database - DBeawer



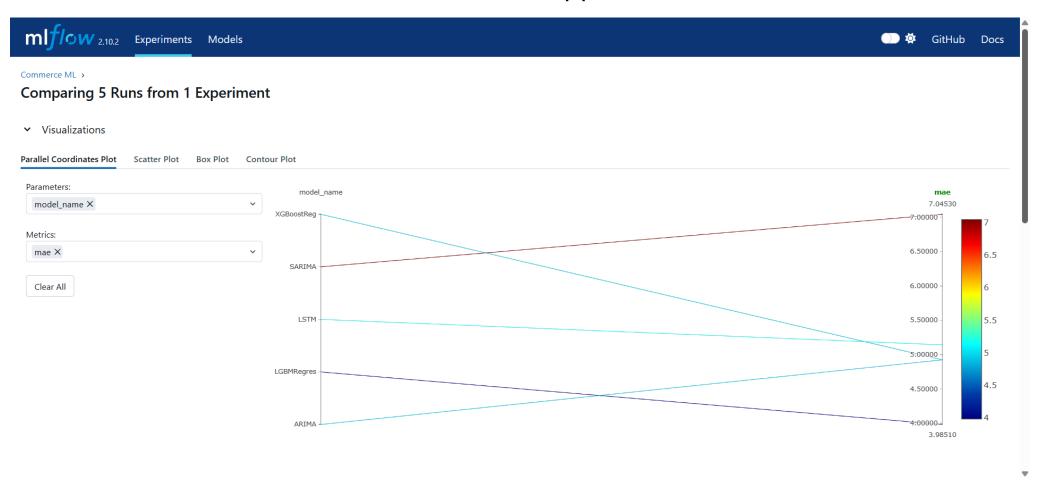
4. Entity Relationship between the tables



5. Power BI Dashboards



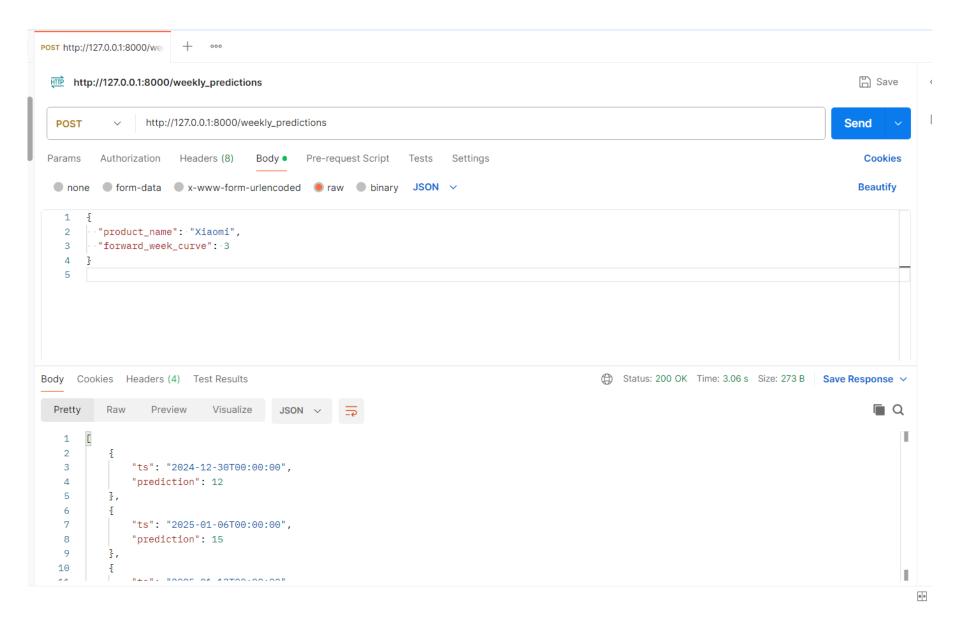
6. MLFlow application



7. Machine Learning Models Evaluation

	Mode	l Evaluation S	tatistics		
product_name	mae_arima	mae_sarima	mae_lstm	mae_lgbm	mae_xgb
Acer	4,448	8,405	4,347	4,362	5,55
Coffee Maker	7,185	7,519	7,351	5,945	6,476
Dell	4,946	5,159	5,126	4,403	4,899
Dish Washer	4,064	6,977	4,606	3,698	4,936
Electric Kettle	4,573	3,499	3,591	4,425	3,647
HP	7,4	10,636	6,838	6,244	7,877
iPhone	6,753	8,851	6,728	6,789	7,515
MacBook	6,288	9,581	6,108	6,248	6,966
Microwave Oven	4,575	6,227	4,353	4,087	3,66
Mixer	5,674	8,876	5,805	5,308	5,173
Range Hood	3,741	5,226	4,404	4,194	4,667
Refrigerator	8,251	8,452	8,755	9,916	9,153
Samsung	7,601	9,775	7,872	5,889	6,352
Stove	4,589	5,563	4,375	3,462	4,6
Toaster	4,927	7,045	5,191	3,985	4,926
Xiaomi	6,518	6,798	6,925	6,3	5,387
Average_MAE	5,721	7,412	5,773	5,328	5,737

8. Postman API Testing



9. Fast API built-in web User Interface



default \wedge ~ / Home POST /weekly_predictions Get Weekly Predictions \wedge Get a weekly forward demand prediction for a chosen product name. Number of forward curves can be also specified. By default it predicts for the next 1 week Try it out Parameters No parameters Request body required application/json ~ Example Value | Schema "product_name": "string", "forward_week_curve": 1 Responses Code Links Description 200 Successful Response No links Media type application/json ~ Controls Accept header. Example Value | Schema "string"