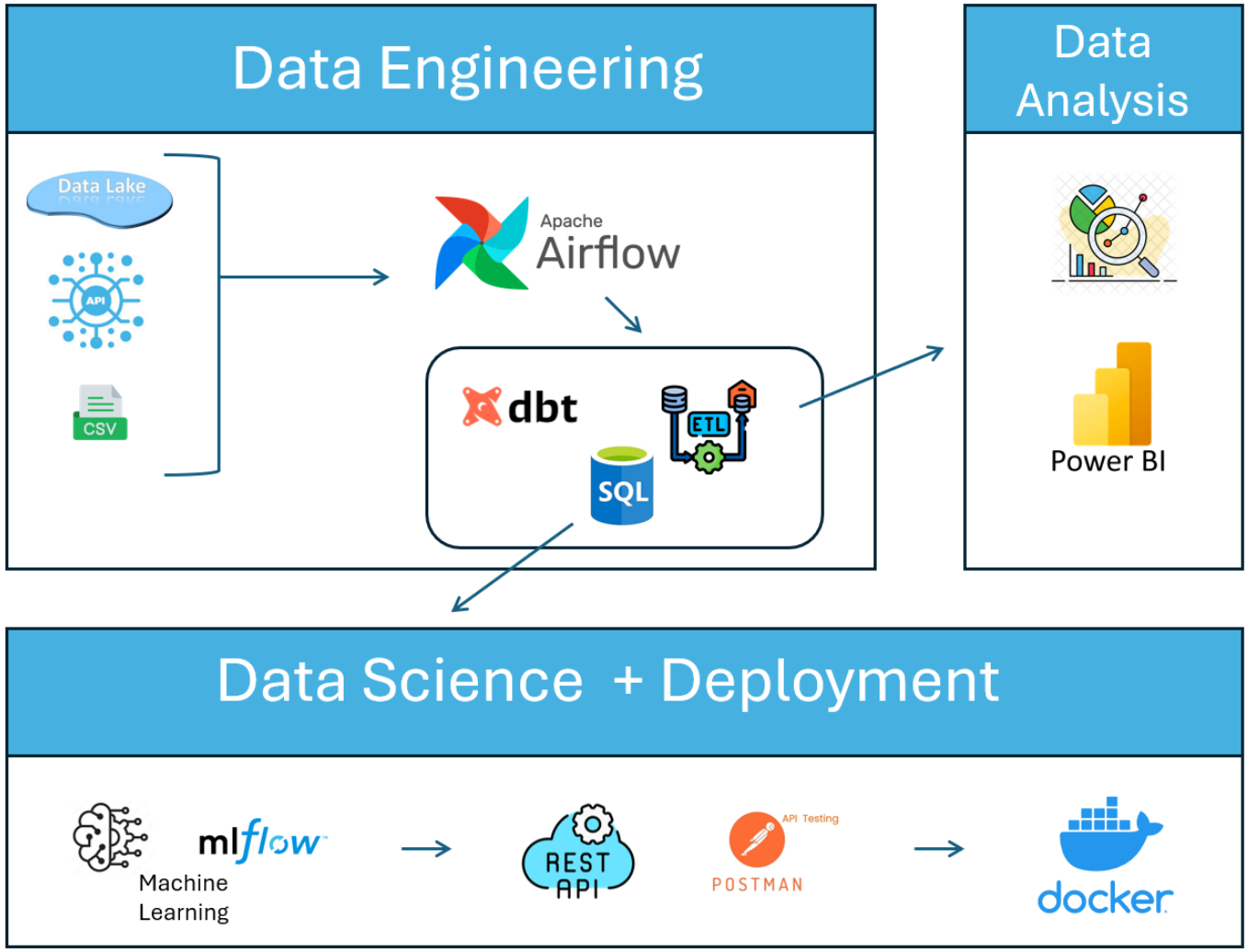
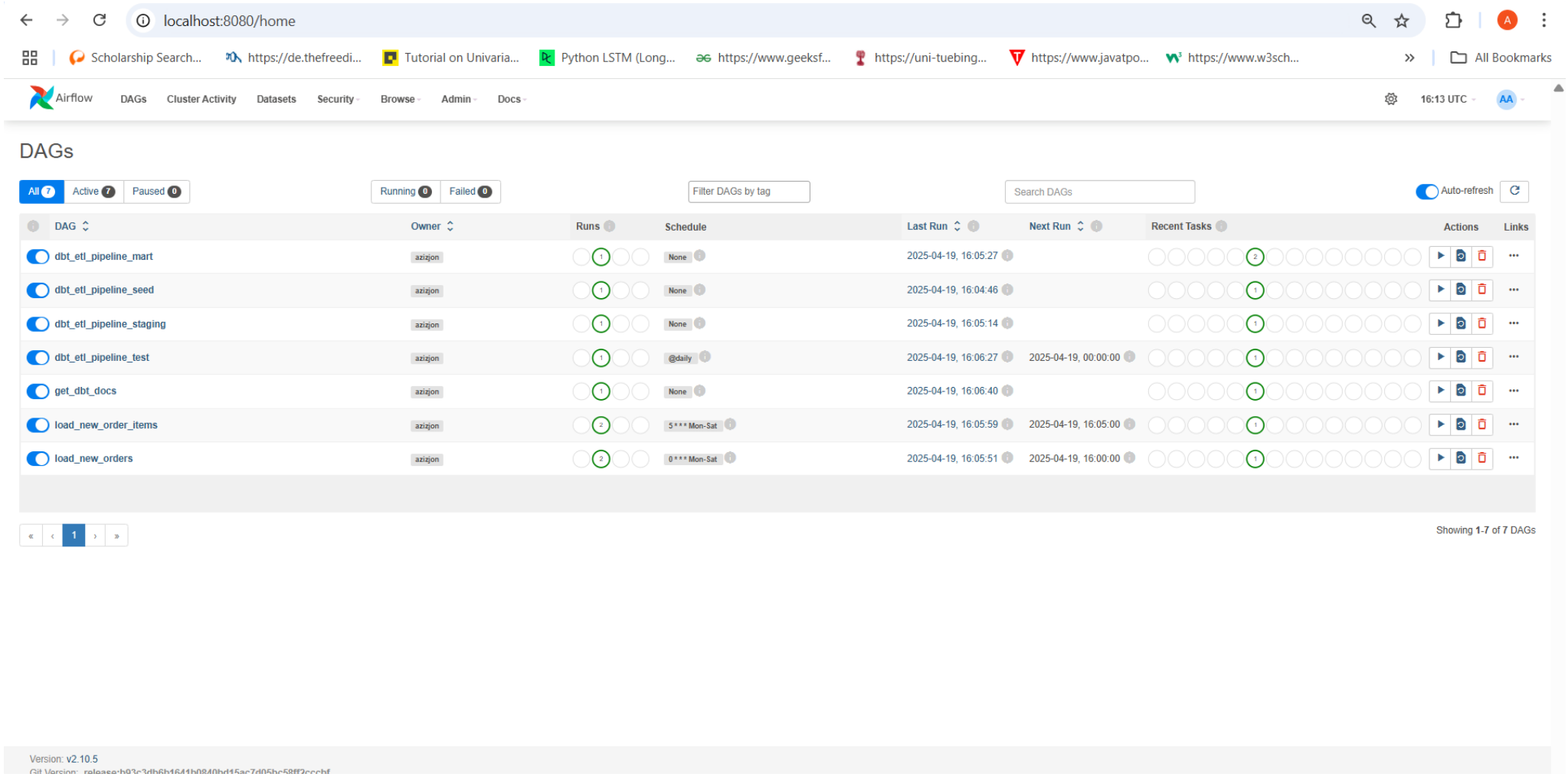
Sales Data Full Project - Workflow:

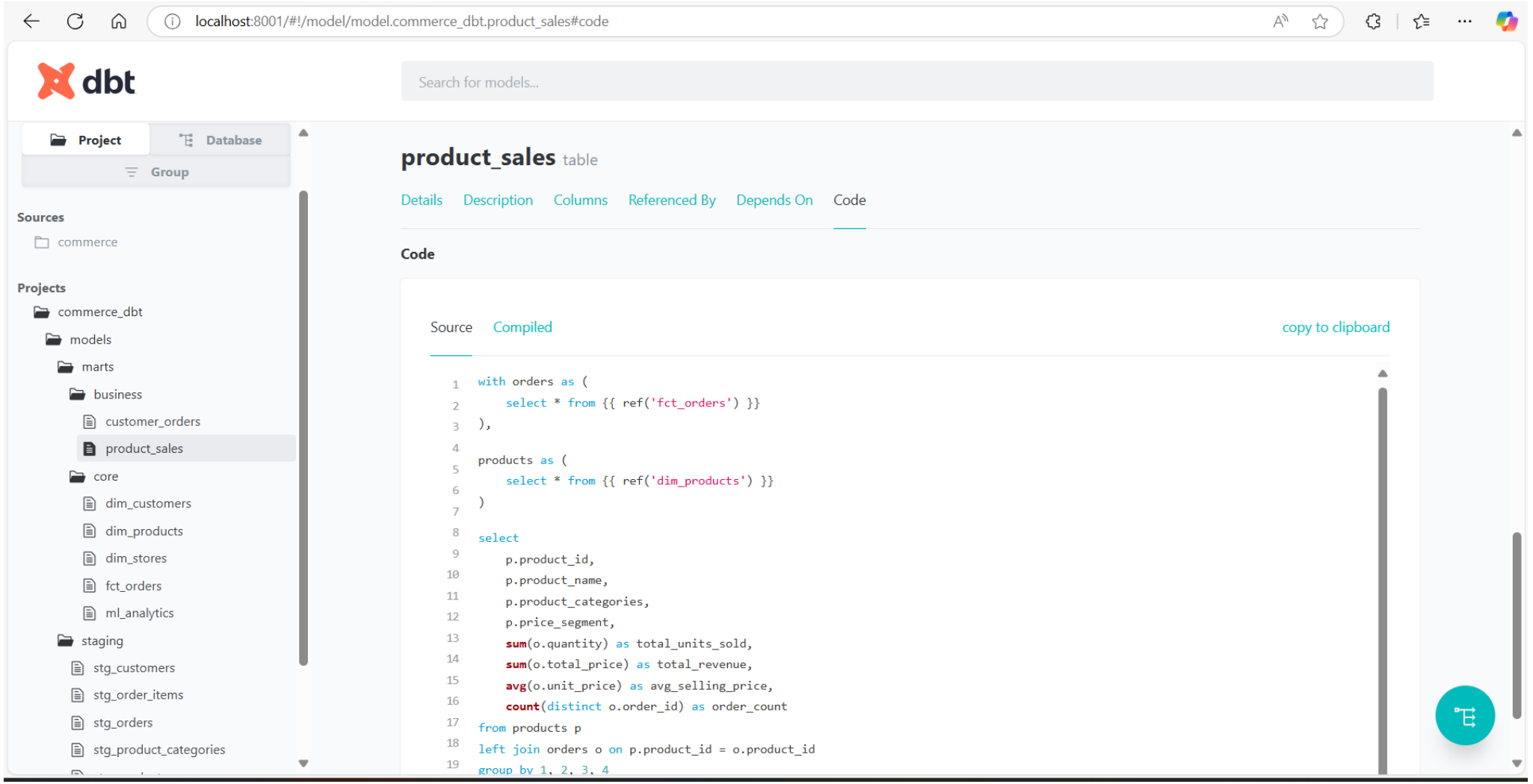
Data Engineering + Data Analysis + Data Science



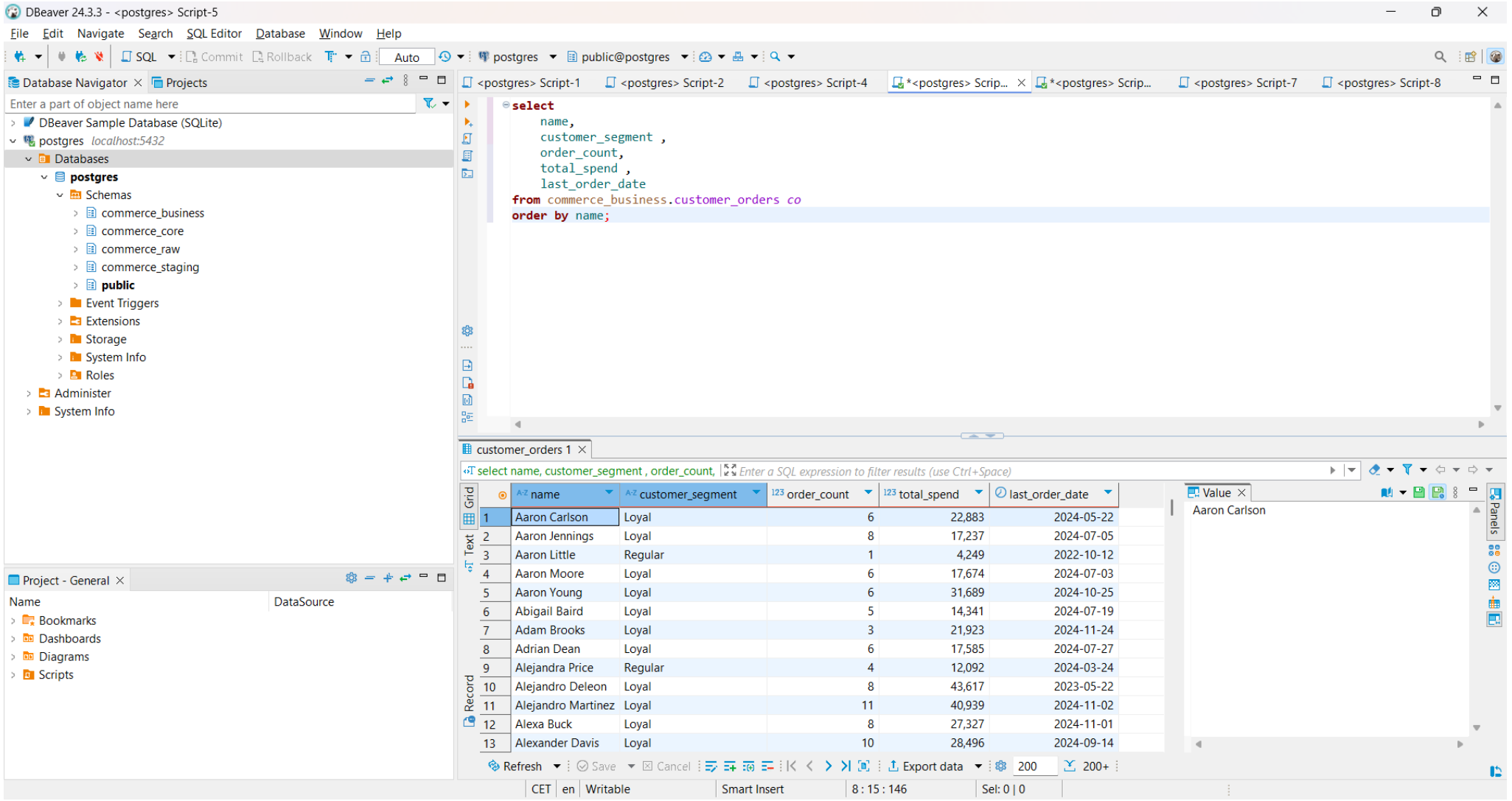
1. Apache Airflow



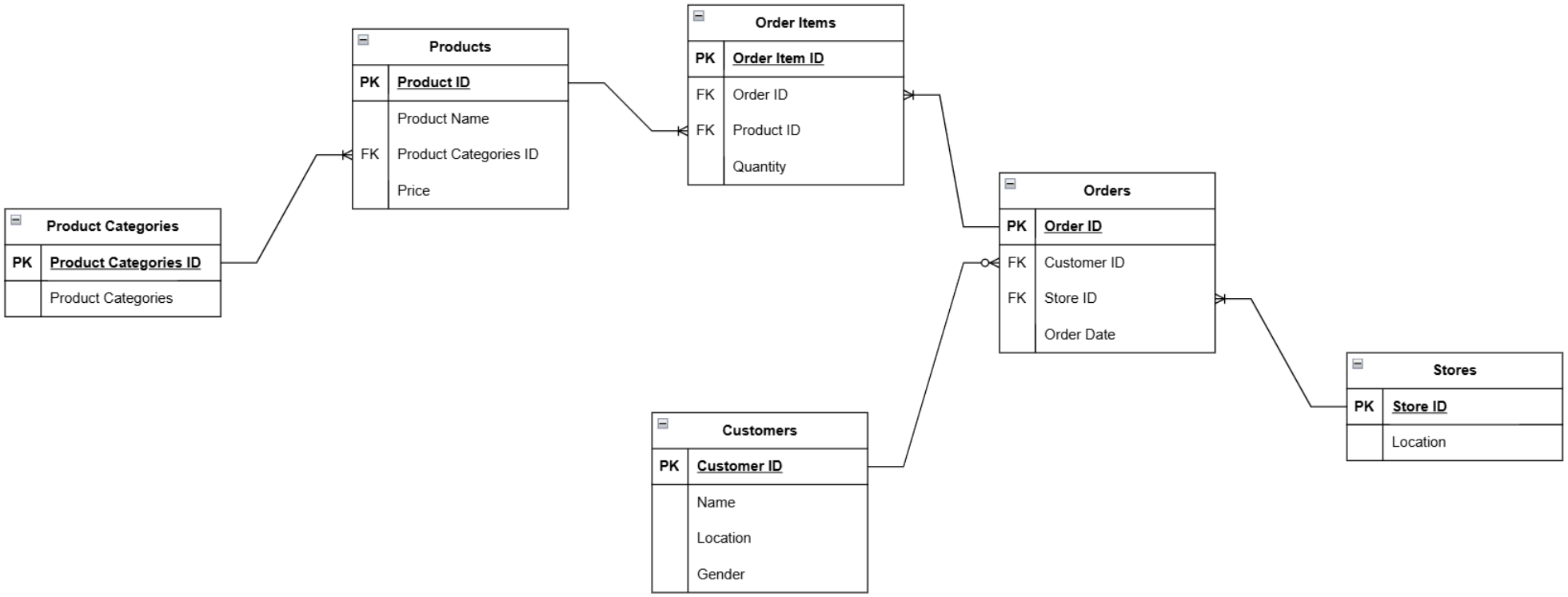
2. DBT Tool and its Documentation



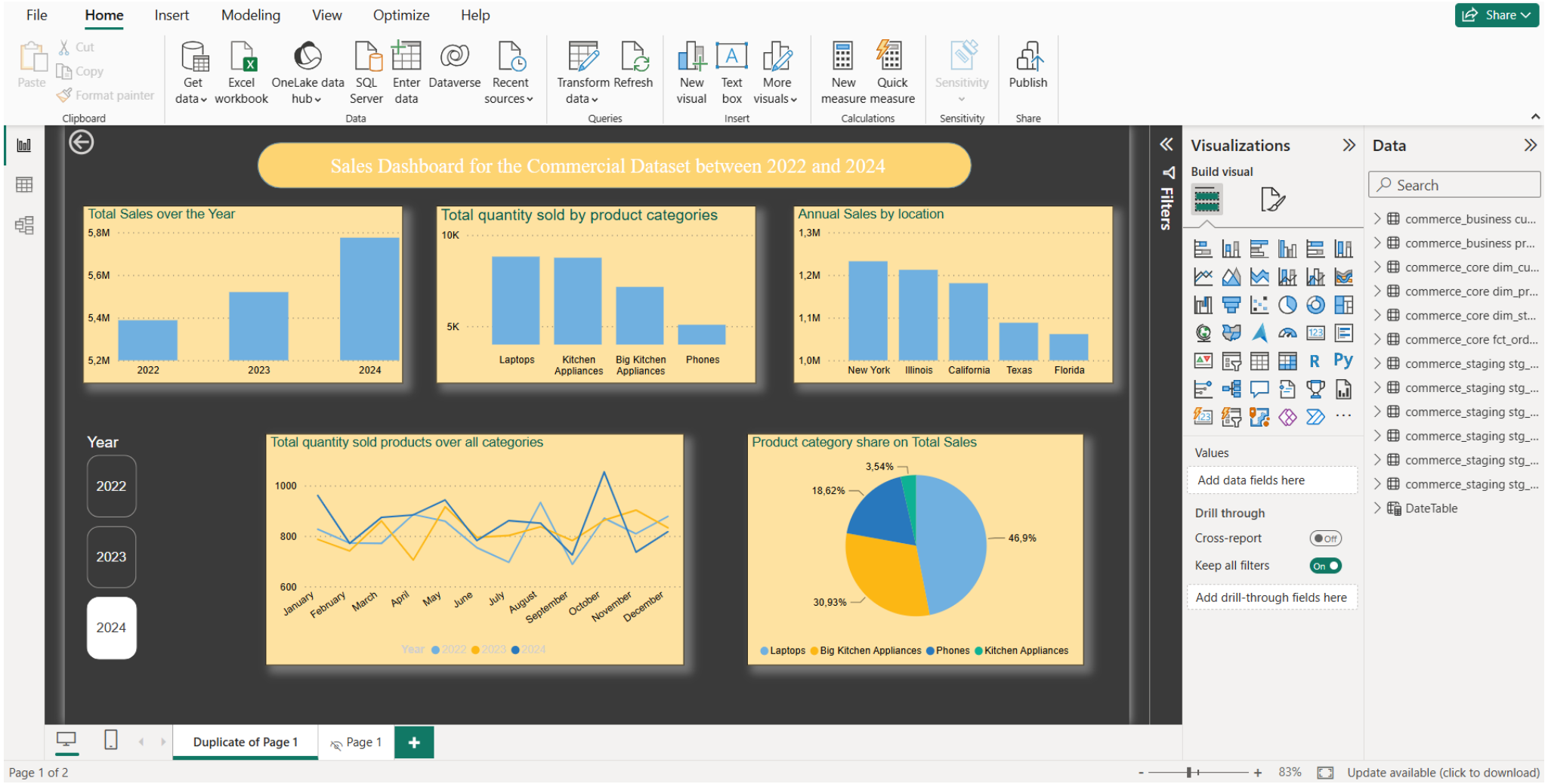
3. SQL Database - DBeawer



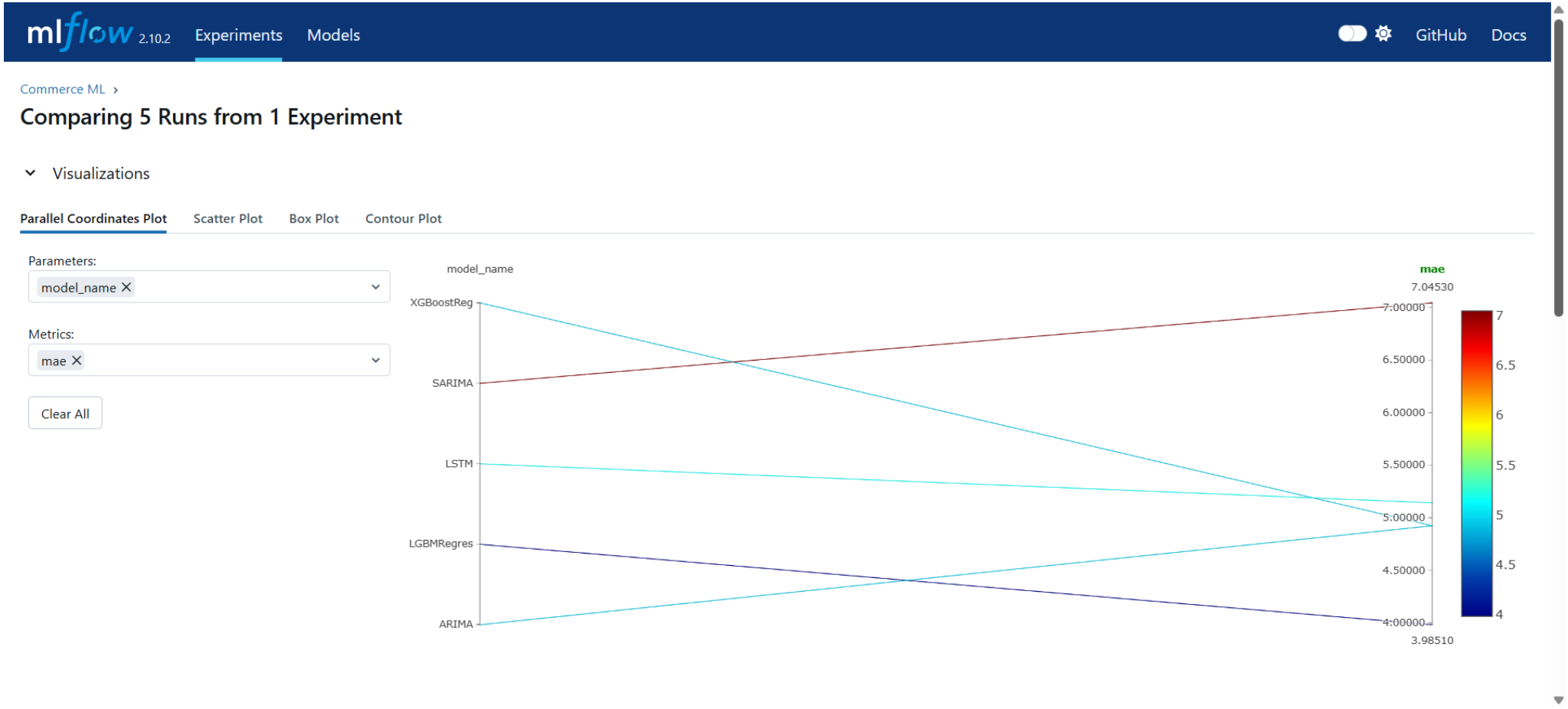
4. Entity Relationship between the tables



5. Power BI Dashboards



6. MLFlow application

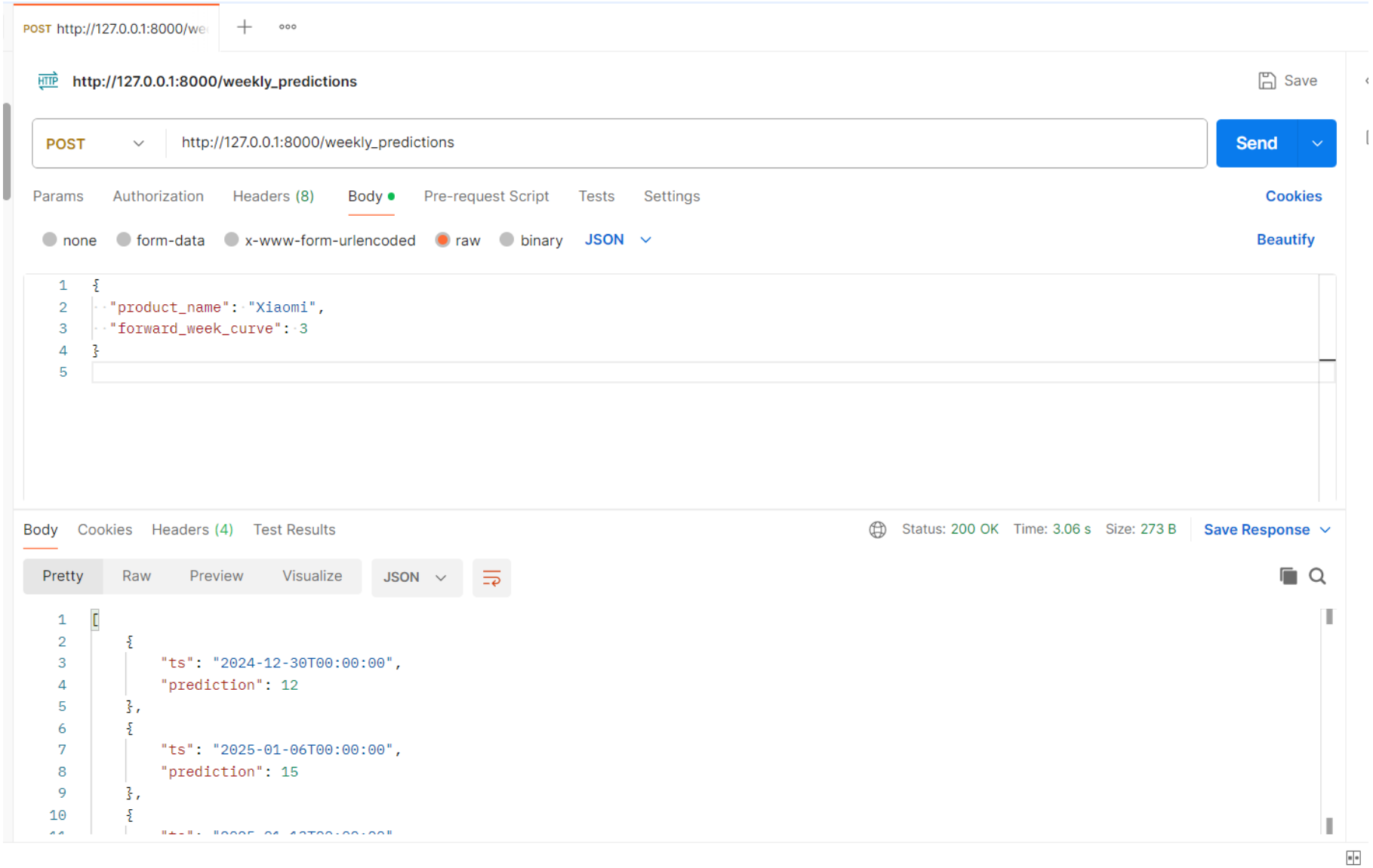


7. Machine Learning Models Evaluation

Model Evaluation Statistics

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