Department of Data Science, Bishop Heber College Tiruchirappalli
NoSQL Database Management Lab

Lab8. Retail Sales Analytics Part-IV

Objectives:

In this lab, you will continue the exploration of Retail Sales dataset using multiple tables. You will learn and apply nested queries or subqueries.

Tasks To Be Done

Question1: Develop 4 nested queries that satisfy these requirements:

- At least one subquery per query
- At least 2 of the queries must use an aggregate function
- At least 2 of the queries must use a join (either inner or outer)

Question2: Create 2 Data Visualizations

- Create a chart in Google Data Studio that visualizes the output of two most interesting nested queries
- Add the charts to your existing Data Studio dashboard.

Question:1

i) SQL> Select store_id, fuel_price from feature_data where fuel_price in (select MAX(fuel_price) from feature_data);

ii) SQL> Select sales_id, MIN(weekly_sales) from sales where sales_id<10 group by sales_id;

iii) SQL> Select sales.isholiday, feature_date from sales inner join feature_data on sales.isholiday = feature_data.isholiday where sales_id<5 and feature_id<5;

iv) SQL> Select sales.dept from sales full outer join feature_data on sales.sales_id = feature_data.feature_id where sales_id<7 and feature_id<7;