NoSql Database Management System

Name: P.Asha Belcilda
Roll no:225229104

Lab5. Retail Sales Analytics Part-II

Question1: Write 3 queries with at least 1 join per query.

SQL> select stores.store_id,stores.type,sales.dept from stores left join sales on stores.store_id=sales_id where stores.store_id<=2;

STORE_ID	TYPE	DEPT
1	A	1
2	A	1

SQL> select stores.store_id,stores.type,sales.dept from stores inner join sales on stores.store_id=sales_id where stores.store_id<=2 and sales_id<=2;

STORE_ID	TYPE	DEPT
1	A	1
2	A	1

SQL> select stores.store_id,stores.type,sales.dept from stores inner join sales on stores.store_id=sales_id where stores.type='B';

STORE_ID	TYPE	DEPT
3	B	1
5	B	1
7	B	1
9	B	1
10	B	1

12	B	1
15	B	1
16	B	1
17	B	1
18	B	1
21	B	1
22	B	1
23	B	1
25	B	1
29	B	1
35	B	1
45	B	1

Question2: Write at least 3 queries that must use outer joins.

SQL> select sales.sales_id,weekly_sales from sales full outer join stores on stores.store_id=sales_id where sales_id<=2 and stores.store_id<=2;

SALES_ID	WEEKLY_SALES
1	24924.5
2	46039.49

SQL> select sales.sales_id,weekly_sales from sales full outer join stores on dept=stores.store_id where sales_id<=2 and stores.type='A';

SALES_ID	WEEKLY_SALES
1	24924.5
2	46039.49

SQL> select sales.sales_id,weekly_sales from sales full outer join stores on sales_id=stores.store_id where isholiday='TRUE' and sales_id<=10;

SALES_ID	WEEKLY_SALES
2	46039.49

Lab 6: **NoSQL Database Management Lab**

Question: Develop aggregate queries in SQL on Retail dataset as follows

- • Write 6 SQL queries with aggregation.
- • At least 1 aggregate function per query.

- • At least 2/5 aggregate functions among the 6 queries.
- • At least 4 GROUP BY clauses among the 6 queries.
- • At least 3 HAVING clauses among the 6 queries.

SQL> select count(store_id),count(sales_id),count(dept) from sales;

COUNT(STORE_ID)	COUNT(SALES_ID)	COUNT(DEPT)
421570	421570	421570

SQL> select store_id,max(temperature),min(temperature) from features where store_id=5 group by store_id;

STORE_ID	MAX(TEMPERATURE)	MIN(TEMPERATURE)
5	91.07	37.74

SQL> select avg(weekly_sales),count(store_id) from sales group by store_id having store_id=5**;**

AVG(WEEKLY_SALES)	COUNT(STORE_ID)
5053.41581	8999

SQL> select avg(temperature),avg(fuel_price) from features group by store_id having store_id=5;

AVG(TEMPERATURE)	AVG(FUEL_PRICE)
68.2245055	3.25924176

SQL> select max(fuel_price),min(fuel_price) from features group by store_id having store_id=5;

MAX(FUEL_PRICE)	MIN(FUEL_PRICE)
3.907	2.514

SQL> select avg(size_),max(size_),min(size_) from stores;

AVG(SIZE_)	MAX(SIZE_)	MIN(SIZE_)
130287.6	219622	34875