RETAIL SALES ANALYTICS PART-IV

Question 1: 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 of outer)**

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

```
 STORE_ID FUEL_PRICE
---------- ----------
        12      4.468
        10      4.468
        28      4.468
        33      4.468
        42      4.468
        38      4.468

6 rows selected.
```

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

```
 SALES_ID MIN(WEEKLY_SALES)
---------- -----------------
         1          24924.5
         2         46039.49
         3         41595.55
         4         19403.54
```

5	21827.9
6	21043.39
7	22136.64
8	26229.21
9	57258.43

9 rows selected.

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;

ISHOLIDAY	FEATURE_
FALSE	05-02-10
FALSE	05-02-10
FALSE	05-02-10
TRUE	12-02-10
FALSE	19-02-10
FALSE	19-02-10
FALSE	19-02-10
FALSE	26-02-10
FALSE	26-02-10
FALSE	26-02-10

10 rows selected.

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;

```
    DEPT
----------
       1
       1
       1
       1
       1
       1

6 rows selected.
```