Problem Statement :- Design at least 10 SQL queries for suitable database application using SQL DML statements: All types of joins,Sub-queries and View.

Submitted By :- 1. Bhushan Asati
2. Asha Mandale
3. Sayaji Dhandge

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| EMP                |
| Library            |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
6 rows in set (0.00 sec)

mysql> create database dml;
Query OK, 1 row affected (0.19 sec)

mysql> use dml;
Database changed
mysql> show tables;
Empty set (0.01 sec)

mysql> CREATE TABLE customer(id INT PRIMARY KEY,name VARCHAR(25) NOT NULL,salary
float NOT NULL);
Query OK, 0 rows affected (0.53 sec)


mysql> INSERT INTO customer VALUES (1,'Bhushan',500000),(2,'Asha',250000);
Query OK, 2 rows affected (0.09 sec)
Records: 2  Duplicates: 0  Warnings: 0


mysql> INSERT INTO customer VALUES (3,'Sayaji',350000),(4,'Ajesh',353240);
Query OK, 2 rows affected (0.11 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM customer;
+----+---------+--------+
| id | name    | salary |
+----+---------+--------+
|  1 | Bhushan | 500000 |
|  2 | Asha    | 250000 |
|  3 | Sayaji  | 350000 |
|  4 | Ajesh   | 353240 |
+----+---------+--------+
4 rows in set (0.00 sec)


mysql> INSERT INTO orders VALUES (1,2,200),(2,2,1200),(3,3,2300),(4,4,2100),
(5,1,100);
Query OK, 5 rows affected (0.09 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM orders;
+----------+-------------+--------+
| order_id | customer_id | amount |
+----------+-------------+--------+
|        1 |           2 |    200 |
```

```
|        2 |           2 |   1200 |
|        3 |           3 |   2300 |
|        4 |           4 |   2100 |
|        5 |           1 |    100 |
+----------+-------------+--------+
5 rows in set (0.00 sec)

mysql> SELECT name,salary,amount FROM customer LEFT JOIN orders ON customer.id =
orders.customer_id;
+---------+--------+--------+
| name    | salary | amount |
+---------+--------+--------+
| Bhushan | 500000 |    100 |
| Asha    | 250000 |   1200 |
| Asha    | 250000 |    200 |
| Sayaji  | 350000 |   2300 |
| Ajesh   | 353240 |   2100 |
+---------+--------+--------+
5 rows in set (0.00 sec)

mysql> SELECT name,salary,amount FROM customer RIGHT JOIN orders ON customer.id
= orders.customer_id;
+---------+--------+--------+
| name    | salary | amount |
+---------+--------+--------+
| Asha    | 250000 |    200 |
| Asha    | 250000 |   1200 |
| Sayaji  | 350000 |   2300 |
| Ajesh   | 353240 |   2100 |
| Bhushan | 500000 |    100 |
+---------+--------+--------+
5 rows in set (0.00 sec)

mysql> SELECT name,salary,amount FROM customer FULL JOIN orders ON id =
orders.customer_id;
+---------+--------+--------+
| name    | salary | amount |
+---------+--------+--------+
| Asha    | 250000 |    200 |
| Asha    | 250000 |   1200 |
| Sayaji  | 350000 |   2300 |
| Ajesh   | 353240 |   2100 |
| Bhushan | 500000 |    100 |
+---------+--------+--------+
5 rows in set (0.00 sec)

mysql> SELECT a.id,b.name,a.salary FROM customer a, customer b WHERE a.salary >
b.salary;
+----+--------+--------+
| id | name   | salary |
+----+--------+--------+
|  4 | Asha   | 353240 |
|  3 | Asha   | 350000 |
|  1 | Asha   | 500000 |
|  4 | Sayaji | 353240 |
|  1 | Sayaji | 500000 |
|  1 | Ajesh  | 500000 |
+----+--------+--------+
6 rows in set (0.00 sec)

mysql> SELECT a.id,b.name,a.salary FROM customer a, customer b WHERE a.salary >
b.salary;
+----+--------+--------+
| id | name   | salary |
```

```
+----+--------+--------+
|  4 | Asha   | 353240 |
|  3 | Asha   | 350000 |
|  1 | Asha   | 500000 |
|  4 | Sayaji | 353240 |
|  1 | Sayaji | 500000 |
|  1 | Ajesh  | 500000 |
+----+--------+--------+
6 rows in set (0.00 sec)

mysql> SELECT id,name,amount FROM customer,orders;
+----+---------+--------+
| id | name    | amount |
+----+---------+--------+
|  4 | Ajesh   |    200 |
|  3 | Sayaji  |    200 |
|  2 | Asha    |    200 |
|  1 | Bhushan |    200 |
|  4 | Ajesh   |   1200 |
|  3 | Sayaji  |   1200 |
|  2 | Asha    |   1200 |
|  1 | Bhushan |   1200 |
|  4 | Ajesh   |   2300 |
|  3 | Sayaji  |   2300 |
|  2 | Asha    |   2300 |
|  1 | Bhushan |   2300 |
|  4 | Ajesh   |   2100 |
|  3 | Sayaji  |   2100 |
|  2 | Asha    |   2100 |
|  1 | Bhushan |   2100 |
|  4 | Ajesh   |    100 |
|  3 | Sayaji  |    100 |
|  2 | Asha    |    100 |
|  1 | Bhushan |    100 |
+----+---------+--------+
20 rows in set (0.00 sec)

mysql> SELECT id,name,amount FROM customer,orders;
+----+---------+--------+
| id | name    | amount |
+----+---------+--------+
|  4 | Ajesh   |    200 |
|  3 | Sayaji  |    200 |
|  2 | Asha    |    200 |
|  1 | Bhushan |    200 |
|  4 | Ajesh   |   1200 |
|  3 | Sayaji  |   1200 |
|  2 | Asha    |   1200 |
|  1 | Bhushan |   1200 |
|  4 | Ajesh   |   2300 |
|  3 | Sayaji  |   2300 |
|  2 | Asha    |   2300 |
|  1 | Bhushan |   2300 |
|  4 | Ajesh   |   2100 |
|  3 | Sayaji  |   2100 |
|  2 | Asha    |   2100 |
|  1 | Bhushan |   2100 |
|  4 | Ajesh   |    100 |
|  3 | Sayaji  |    100 |
|  2 | Asha    |    100 |
|  1 | Bhushan |    100 |
+----+---------+--------+
20 rows in set (0.00 sec)
```

```
mysql> SELECT name FROM customer WHERE id IN (SELECT customer_id FROM orders);
+---------+
| name    |
+---------+
| Bhushan |
| Asha    |
| Sayaji  |
| Ajesh   |
+---------+
4 rows in set (0.02 sec)

mysql> UPDATE customer SET salary=salary+1000 WHERE id IN (SELECT customer_id
FROM orders);
Query OK, 4 rows affected (0.13 sec)
Rows matched: 4  Changed: 4  Warnings: 0

mysql> SELECT * FROM customer;
+----+---------+--------+
| id | name    | salary |
+----+---------+--------+
|  1 | Bhushan | 501000 |
|  2 | Asha    | 251000 |
|  3 | Sayaji  | 351000 |
|  4 | Ajesh   | 354240 |
+----+---------+--------+
4 rows in set (0.01 sec)

mysql>
```