

Assignment Name: - Design at least 10 SQL queries for suitable database application using SQL DML statements: all types of Join, Sub-Query and View.

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

```
mysql> use info;
Database changed
```

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

```
mysql> show tables;
+-----+
| Tables_in_info |
+-----+
| order_details  |
| product        |
| products       |
| stud           |
| v1             |
+-----+
5 rows in set (0.00 sec)
```

/* Accessing tables from the existing database */

```
mysql> select product_id,prod_Name,supplier_id,category_id,price from
product;
```

```

+-----+-----+-----+-----+-----+
| product_id | prod_Name | supplier_id | category_id | price |
+-----+-----+-----+-----+-----+
|          1 | ram       |          1 |          2 |    320 |
|          2 | Ravi     |          3 |          4 |   4000 |
|          3 | Kaveri   |          4 |          3 |   5000 |
|          4 | Anisha   |          5 |          3 |    200 |
|          5 | yash     |          6 |          5 |   4000 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

```

/* Accessing tables from the existing database */
mysql> select orderDetail_Id,orderID,product_id,Quantity from
Order_details;

```

```

+-----+-----+-----+-----+
| orderDetail_Id | orderID | product_id | Quantity |
+-----+-----+-----+-----+
|          1 |    33004 |          2 |        12 |
|          2 |   234543 |          4 |        10 |
|          3 |   45433  |          3 |        15 |
|          5 |   76543  |          5 |        34 |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

```

```

/* To join two tables columns by using LEFT JOIN */

```

```

mysql> select product.product_id,product.prod_Name,order_details.orderID
from product left join order_details on product.product_id=o
rder_details.product_id;

```

```

+-----+-----+-----+
| product_id | prod_Name | orderID |
+-----+-----+-----+
|          1 | ram       |    NULL |
|          2 | Ravi     |   33004 |
|          3 | Kaveri   |   45433 |
|          4 | Anisha   |  234543 |
|          5 | yash     |   76543 |
+-----+-----+-----+
5 rows in set (0.00 sec)

```

```

/* To join two tables columns by using RIGHT JOIN */

```

```

mysql> select product.product_id,product.prod_Name,order_details.orderID
from product RIGHT JOIN order_details on product.product_id=
order_details.product_id;

```

```

+-----+-----+-----+
| product_id | prod_Name | orderID |
+-----+-----+-----+
|          2 | Ravi     |   33004 |
|          4 | Kaveri   |  234543 |
|          3 | Anisha   |   45433 |
|          5 | yash     |   76543 |
+-----+-----+-----+
4 rows in set (0.00 sec)

```

/* To join two tables columns by using CROSS JOIN */

```
mysql> select product.product_id,product.prod_Name,order_details.orderID
from product CROSS JOIN order_details on product.product_id=
order_details.product_id;
```

```
+-----+-----+-----+
| product_id | prod_Name | orderID |
+-----+-----+-----+
|          2 | Ravi      | 33004   |
|          4 | Kaveri    | 234543  |
|          3 | Anisha    | 45433   |
|          5 | yash      | 76543   |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

/* To Display the orderdetails whose Quantity = 10 By using "ANY" Clause

```
mysql> select prod_Name from product where product_id = ANY (select
product_id from order_details where Quantity=10);
```

```
+-----+
| prod_Name |
+-----+
| Kaveri     |
+-----+
1 row in set (0.00 sec)
```

/* To find any orderdetails whose Quantity is less than 10 */

```
mysql> select prod_Name from product where product_id = ANY (select
product_id from order_details where Quantity < 10);
Empty set (0.00 sec)
```

```
mysql> select prod_Name from product where product_id = ANY (select
product_id from order_details where Quantity>10);
```

```
+-----+
| prod_Name |
+-----+
| Ravi      |
| Anisha    |
| yash      |
+-----+
3 rows in set (0.00 sec)
```

/* Display ALL prod_name from product by using ALL clause : */

```
mysql> select All prod_Name from product where
TRUE;
```

```
+-----+
| prod_Name |
+-----+
| ram       |
| Ravi      |
| Anisha    |
| Kaveri    |
+-----+
```

```
| yash      |
+-----+
5 rows in set (0.00 sec)
```

/* To Display the orderdetails whose Quantity = 10 By using "ALL" Clause */

```
mysql> select prod_Name from product where product_id=ALL (select
product_id from order_details where Quantity=10);
```

```
+-----+
| prod_Name |
+-----+
| tanmay    |
+-----+
```

1 row in set (0.00 sec)

/* To find any orderdetails whose Quantity is Greater than 10 by using "ALL" clause*/

```
mysql> select prod_Name from product where product_id=ALL (select
product_id from order_details where Quantity>10);
```

Empty set (0.00 sec)

```
mysql> select prod_Name from product where product_id=ALL (select
product_id from order_details where Quantity<10);
```

```
+-----+
| prod_Name |
+-----+
| ram       |
| Ravi      |
| Anisha    |
| Kaveri    |
| yash      |
+-----+
```

5 rows in set (0.00 sec)

```
mysql> select * from product where product_id = ANY (select product_id
from order_details);
```

```
+-----+-----+-----+-----+-----+
| product_id | prod_Name | supplier_id | category_id | price |
+-----+-----+-----+-----+-----+
| 2 | Ravi | 3 | 4 | 4000 |
| 4 | kaveri | 5 | 3 | 200 |
| 3 | Anisha | 4 | 3 | 5000 |
| 5 | yash | 6 | 5 | 4000 |
+-----+-----+-----+-----+-----+
```

4 rows in set (0.00 sec)

```
mysql> select * from product where product_id = ALL (select product_id
from order_details); Empty set (0.00 sec)
```

```
mysql> create view v12 as select prod_Name,price from product;
```

Query OK, 0 rows affected (0.03 sec)

```
mysql> select * from v12;
```

```
+-----+-----+
| prod_Name | price |
+-----+-----+
```

```

+-----+-----+
| ram    | 320 |
| Ravi   | 4000 |
| Anisha | 5000 |
| kaveri | 200 |
| yash   | 4000 |
+-----+-----+
5 rows in set (0.02 sec)

```

mysql> select * from product;

```

+-----+-----+-----+-----+-----+
| product_id | prod_Name | supplier_id | category_id | price |
+-----+-----+-----+-----+-----+
| 1 | ram | 1 | 2 | 320 |
| 2 | Ravi | 3 | 4 | 4000 |
| 3 | Anisha | 4 | 3 | 5000 |
| 4 | kaveri | 5 | 3 | 200 |
| 5 | yash | 6 | 5 | 4000 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

mysql> select * from order_details;

```

+-----+-----+-----+-----+
| orderDetail_Id | orderID | product_id | Quantity |
+-----+-----+-----+-----+
| 1 | 33004 | 2 | 12 |
| 2 | 234543 | 4 | 10 |
| 3 | 45433 | 3 | 15 |
| 5 | 76543 | 5 | 34 |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

```

**mysql> update order_details set orderID=76543,product_id=1,Quantity=09
where orderDetail_Id;**

Query OK, 4 rows affected (0.01 sec)
Rows matched: 4 Changed: 4 Warnings: 0

mysql> select * from order_details;

```

+-----+-----+-----+-----+
| orderDetail_Id | orderID | product_id | Quantity |
+-----+-----+-----+-----+
| 1 | 76543 | 1 | 9 |
| 2 | 76543 | 1 | 9 |
| 3 | 76543 | 1 | 9 |
| 5 | 76543 | 1 | 9 |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

```