

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

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Class : TE

Microsoft Windows [Version 10.0.22631.3958]
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C:\Users\HP>mysql -u root -p

Enter password: ****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 12

Server version: 8.0.38 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

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 | Darshan  |          4 |          3 |   5000 |
|          4 | tanmay   |          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=or
der_details.product_id;
```

```
+-----+-----+-----+
| product_id | prod_Name | orderID |
+-----+-----+-----+
|          1 | ram      |    NULL |
|          2 | Ravi     |   33004 |
|          3 | Darshan  |   45433 |
|          4 | tanmay   |  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 | tanmay    | 234543  |
|          3 | Darshan   | 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 | tanmay    | 234543  |
|          3 | Darshan   | 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 |
+-----+
| tanmay    |
+-----+
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      |
| Darshan   |
| 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      |
| Darshan   |
| tanmay    |
| 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      |
| Darshan   |
| tanmay    |
| 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 | tanmay    |          5 |          3 | 200  |

```

3	Darshan	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  |
| Darshan   | 5000  |
| tanmay    | 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          | Darshan   | 4           | 3           | 5000  |
| 4          | tanmay    | 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       |
| 4              | 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)