**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)