Assignment 5

1. Display the purchase orders of a specific customer.

```
mysql> select order_id from orders where cust_id=55;
+----------+
| order_id |
+----------+
|        3 |
|        9 |
|     1001 |
+----------+
3 rows in set (0.00 sec)

mysql> select order_id from orders natural join customer where
fname="Ravi";
+----------+
| order_id |
+----------+
|       12 |
|       13 |
+----------+
2 rows in set (0.00 sec)

mysql> select orders.order_id,product_id,price from
orders,customer,selects where fname="Shreyas" and
customer.cust_id=orders.cust_id and
selects.order_id=orders.order_id;
+----------+------------+-------+
| order_id | product_id | price |
+----------+------------+-------+
|        3 |          2 |   390 |
|        3 |         10 |    20 |
|        9 |          3 |    90 |
|        9 |         10 |    20 |
|     1001 |          2 |   260 |
|     1001 |          4 |    40 |
+----------+------------+-------+
6 rows in set (0.00 sec)
```

2. Get the Customer and Data Item Information for a Specific Purchase Order

```
mysql> select
fname,orders.order_id,product.product_id,product.name as
products,category.name as categories,selects.price from
customer,orders,product,selects,category where
customer.cust_id=orders.cust_id and
orders.order_id=selects.order_id and
```

```
product.product_id=selects.product_id and fname="Prathamesh" and
category.cat_id=product.cat_id;
+------------+----------+------------+--------------------
+------------+-------+
| fname      | order_id | product_id | products           | categories  | price |
+------------+----------+------------+--------------------+------------+-------+
| Prathamesh |        8 |          1 | 200 Pages Notebook | Books       |   210 |
| Prathamesh |        8 |          2 | 200 Pages Notebook | Books       |   390 |
| Prathamesh |        8 |          4 | Pen                | Consumables |    10 |
+------------+----------+------------+--------------------+------------+-------+
3 rows in set (0.00 sec)
```

3. Get the Total Value of Purchase Orders

```
mysql> select * from orders;
+----------+---------+-------------+---------------------+
| order_id | cust_id | total_price | ts                  |
+----------+---------+-------------+---------------------+
|        1 |      49 |         350 | 2020-09-15 11:50:41 |
|        2 |      51 |         550 | 2020-09-15 11:51:22 |
|        3 |      55 |         410 | 2020-09-15 11:51:42 |
|        4 |      52 |         710 | 2020-09-15 11:51:49 |
|        5 |      49 |         910 | 2020-09-15 11:51:58 |
|        6 |      50 |        1110 | 2020-09-15 11:52:25 |
|        7 |      54 |         210 | 2020-09-15 11:52:33 |
|        8 |      53 |         610 | 2020-09-15 11:52:46 |
|        9 |      55 |         110 | 2020-09-15 11:52:52 |
|       10 |      30 |         200 | 2020-09-22 10:30:37 |
|       11 |      30 |         920 | 2020-09-22 10:30:52 |
|       12 |      60 |         120 | 2020-09-22 10:31:11 |
|       13 |      60 |        1020 | 2020-09-22 10:31:18 |
|     1001 |      55 |         300 | 2020-09-22 10:32:11 |
+----------+---------+-------------+---------------------+
14 rows in set (0.00 sec)

mysql> select sum(total_price) from orders;
+------------------+
| sum(total_price) |
+------------------+
|             7530 |
+------------------+
1 row in set (0.00 sec)

mysql> select sum(total_price) from orders where cust_id=49;
+------------------+
| sum(total_price) |
+------------------+
|             1260 |
+------------------+
1 row in set (0.00 sec)

mysql> select sum(total_price) from orders,customer where
customer.cust_id=orders.cust_id and fname="Shreyas";
```

```
+------------------+
| sum(total_price) |
+------------------+
|              820 |
+------------------+
1 row in set (0.00 sec)
```

4. List the Purchase Orders in Descending Order as per Total

```
mysql> select * from orders order by total_price desc;
+----------+---------+-------------+---------------------+
| order_id | cust_id | total_price | ts                  |
+----------+---------+-------------+---------------------+
|        6 |      50 |        1110 | 2020-09-15 11:52:25 |
|       13 |      60 |        1020 | 2020-09-22 10:31:18 |
|       11 |      30 |         920 | 2020-09-22 10:30:52 |
|        5 |      49 |         910 | 2020-09-15 11:51:58 |
|        4 |      52 |         710 | 2020-09-15 11:51:49 |
|        8 |      53 |         610 | 2020-09-15 11:52:46 |
|        2 |      51 |         550 | 2020-09-15 11:51:22 |
|        3 |      55 |         410 | 2020-09-15 11:51:42 |
|        1 |      49 |         350 | 2020-09-15 11:50:41 |
|     1001 |      55 |         300 | 2020-09-22 10:32:11 |
|        7 |      54 |         210 | 2020-09-15 11:52:33 |
|       10 |      30 |         200 | 2020-09-22 10:30:37 |
|       12 |      60 |         120 | 2020-09-22 10:31:11 |
|        9 |      55 |         110 | 2020-09-15 11:52:52 |
+----------+---------+-------------+---------------------+
14 rows in set (0.00 sec)
```

5. Display the name of customers whose first name starts with "Ravi". (String matching: LIKE operator)

```
mysql> select cust_id,fname from customer where fname like
"Ravi%";
+---------+----------+
| cust_id | fname    |
+---------+----------+
|      30 | Ravikant |
|      60 | Ravi     |
+---------+----------+
2 rows in set (0.00 sec)
```

6. Display the name of customer where order amount is greater than all the customers. (Relational Operators: <, >, <=, >=, ==, !=)

```
mysql> select Distinct fname,lname from customer,orders where
customer.cust_id=orders.cust_id and total_price>600 order by
fname;
+------------+-----------+
| fname      | lname     |
+------------+-----------+
| Harsh      | Sakhrani  |
| Onkar      | Sharma    |
| Prathamesh | Shiralkar |
| Ravi       | Sharma    |
| Ravikant   | Mishra    |
| Saloni     | Parekh    |
+------------+-----------+
6 rows in set (0.00 sec)

mysql> select Distinct fname,lname from customer,orders where
customer.cust_id=orders.cust_id and total_price<300 order by
fname;
+----------+---------+
| fname    | lname   |
+----------+---------+
| Muskaan  | Shraogi |
| Ravi     | Sharma  |
| Ravikant | Mishra  |
| Shreyas  | Kalrao  |
+----------+---------+
4 rows in set (0.00 sec)

mysql> select Distinct fname,lname from customer,orders where
customer.cust_id=orders.cust_id and total_price!=1100 order by
fname;
+------------+-----------+
| fname      | lname     |
+------------+-----------+
| Anuj       | Saoji     |
| Harsh      | Sakhrani  |
| Muskaan    | Shraogi   |
| Onkar      | Sharma    |
| Prathamesh | Shiralkar |
| Ravi       | Sharma    |
| Ravikant   | Mishra    |
| Saloni     | Parekh    |
| Shreyas    | Kalrao    |
+------------+-----------+
```

7.Display Order Details of customer whose city is "Pune" and purchase date is "2020-09-15"

```
mysql> select
fname,orders.order_id,product.product_id,product.name as
products,category.name as categories,selects.price from
```

```
customer,orders,product,selects,category where
customer.cust_id=orders.cust_id and
orders.order_id=selects.order_id and
product.product_id=selects.product_id and city='Pune' and ts like
'2020-09-15%' and category.cat_id=product.cat_id;
+----------+----------+------------+--------------------+-------------+-------+
| fname    | order_id | product_id | products           | categories  | price |
+----------+----------+------------+--------------------+-------------+-------+
| Harsh    |        1 |          1 | 200 Pages Notebook | Books       |   280 |
| Harsh    |        1 |          4 | Pen                | Consumables |    70 |
| Harsh    |        5 |          4 | Pen                | Consumables |    10 |
| Harsh    |        5 |          7 | fx-991MS           | Calculator  |   900 |
| Saloni   |        6 |          1 | 200 Pages Notebook | Books       |   210 |
| Saloni   |        6 |          7 | fx-991MS           | Calculator  |   900 |
| Shreyas  |        3 |          2 | 200 Pages Notebook | Books       |   390 |
| Shreyas  |        3 |         10 | Workshop Apron     | Wearables   |    20 |
| Shreyas  |        9 |          3 | Pen                | Consumables |    90 |
| Shreyas  |        9 |         10 | Workshop Apron     | Wearables   |    20 |
+----------+----------+------------+--------------------+-------------+-------+
10 rows in set (0.01 sec)

mysql> select
fname,orders.order_id,product.product_id,product.name as
products,category.name as categories,selects.price from
customer,orders,product,selects,category where
customer.cust_id=orders.cust_id and
orders.order_id=selects.order_id and
product.product_id=selects.product_id and city='Gurgaon' and ts
like '2020-09-22%' and category.cat_id=product.cat_id;
+----------+----------+------------+----------------+-------------+-------+
| fname    | order_id | product_id | products       | categories  | price |
+----------+----------+------------+----------------+-------------+-------+
| Ravikant |       10 |          3 | Pen            | Consumables |   180 |
| Ravikant |       10 |         10 | Workshop Apron | Wearables   |    20 |
| Ravikant |       11 |          4 | Pen            | Consumables |    20 |
| Ravikant |       11 |          7 | fx-991MS       | Calculator  |   900 |
+----------+----------+------------+----------------+-------------+-------+
4 rows in set (0.00 sec)
```

8. Add Discount of 5% to all customer whose order is more than 1000

```
mysql> select
customer.cust_id,fname,order_id,total_price,0.05*total_price as
Discount,total_price-(0.05*total_price) as New_Price from
customer,orders where orders.cust_id=customer.cust_id and
total_price>1000;
+---------+--------+----------+-------------+----------+-----------+
| cust_id | fname  | order_id | total_price | Discount | New_Price |
+---------+--------+----------+-------------+----------+-----------+
|      50 | Saloni |        6 |        1110 |     55.5 |    1054.5 |
|      60 | Ravi   |       13 |        1020 |       51 |       969 |
+---------+--------+----------+-------------+----------+-----------+
2 rows in set (0.00 sec)
```

```
mysql> update orders set total_price=total_price-
(0.05*total_price) where total_price>1000;
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2  Changed: 2  Warnings: 0

mysql> select * from orders;
+----------+---------+-------------+---------------------+
| order_id | cust_id | total_price | ts                  |
+----------+---------+-------------+---------------------+
|        1 |      49 |         350 | 2020-09-15 11:50:41 |
|        2 |      51 |         550 | 2020-09-15 11:51:22 |
|        3 |      55 |         410 | 2020-09-15 11:51:42 |
|        4 |      52 |         710 | 2020-09-15 11:51:49 |
|        5 |      49 |         910 | 2020-09-15 11:51:58 |
|        6 |      50 |      1054.5 | 2020-09-15 11:52:25 |
|        7 |      54 |         210 | 2020-09-15 11:52:33 |
|        8 |      53 |         610 | 2020-09-15 11:52:46 |
|        9 |      55 |         110 | 2020-09-15 11:52:52 |
|       10 |      30 |         200 | 2020-09-22 10:30:37 |
|       11 |      30 |         920 | 2020-09-22 10:30:52 |
|       12 |      60 |         120 | 2020-09-22 10:31:11 |
|       13 |      60 |         969 | 2020-09-22 10:31:18 |
|     1001 |      55 |         300 | 2020-09-22 10:32:11 |
+----------+---------+-------------+---------------------+
14 rows in set (0.00 sec)
```

9. Delete Purchase Order 1001

```
mysql> select * from orders;
+----------+---------+-------------+---------------------+
| order_id | cust_id | total_price | ts                  |
+----------+---------+-------------+---------------------+
|        1 |      49 |         350 | 2020-09-15 11:50:41 |
|        2 |      51 |         550 | 2020-09-15 11:51:22 |
|        3 |      55 |         410 | 2020-09-15 11:51:42 |
|        4 |      52 |         710 | 2020-09-15 11:51:49 |
|        5 |      49 |         910 | 2020-09-15 11:51:58 |
|        6 |      50 |      1054.5 | 2020-09-15 11:52:25 |
|        7 |      54 |         210 | 2020-09-15 11:52:33 |
|        8 |      53 |         610 | 2020-09-15 11:52:46 |
|        9 |      55 |         110 | 2020-09-15 11:52:52 |
|       10 |      30 |         200 | 2020-09-22 10:30:37 |
|       11 |      30 |         920 | 2020-09-22 10:30:52 |
|       12 |      60 |         120 | 2020-09-22 10:31:11 |
|       13 |      60 |         969 | 2020-09-22 10:31:18 |
|     1001 |      55 |         300 | 2020-09-22 10:32:11 |
+----------+---------+-------------+---------------------+
14 rows in set (0.00 sec)

mysql> delete from orders where order_id=1001;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from orders where order_id!=1001;
+----------+---------+-------------+---------------------+
| order_id | cust_id | total_price | ts                  |
+----------+---------+-------------+---------------------+
|        1 |      49 |         350 | 2020-09-15 11:50:41 |
|        2 |      51 |         550 | 2020-09-15 11:51:22 |
|        3 |      55 |         410 | 2020-09-15 11:51:42 |
|        4 |      52 |         710 | 2020-09-15 11:51:49 |
|        5 |      49 |         910 | 2020-09-15 11:51:58 |
|        6 |      50 |      1054.5 | 2020-09-15 11:52:25 |
|        7 |      54 |         210 | 2020-09-15 11:52:33 |
|        8 |      53 |         610 | 2020-09-15 11:52:46 |
|        9 |      55 |         110 | 2020-09-15 11:52:52 |
|       10 |      30 |         200 | 2020-09-22 10:30:37 |
|       11 |      30 |         920 | 2020-09-22 10:30:52 |
|       12 |      60 |         120 | 2020-09-22 10:31:11 |
|       13 |      60 |         969 | 2020-09-22 10:31:18 |
+----------+---------+-------------+---------------------+
13 rows in set (0.00 sec)
```