Name:- RESHMA KEESARI

Roll no. :- 36

PRACTICAL - 01

Aim:- DDL operations on Relational Schema

1. Display name and commission for all the salesman.

```
mysql> select name , commission from salesman;
              commission
 name
 James Hoog
                    0.15
 Nail Knite
                    0.13
                    0.12
 Lauson Hen
 Pit Alex
                    0.11
                    0.14
 Mc Lyon
 Paul Adam
                    0.13
 rows in set (0.00 sec)
```

2. Retrieve salesman id of all salesmen from orders table without any repeats.

3. Display names and city of salesman, who belongs to the city of Paris.

4. Display all the information for those customers with a grade of 200.

```
mysql> select * from customer where grade= 200;
 customer_id | customer_name | city
                                             grade | salesman_id |
                Jozy Altidor
         3003
                                                             5007
                                Moncow
                                                200
         3005
                                                             5002
                Graham Zusi
                                California
                                                200
         3007 | Brad Dravis
                              New York
                                                200
                                                             5001
 rows in set (0.00 sec)
```

5. Display the order number, order date and the purchase amount for order(s) which will be delivered by the salesman with ID 5001.

6. Display all the customers, who are either belongs to the city New York or not had a grade above 100.

```
mysql> select * from customer where city= 'New York' and grade <= 100;
+-----+
| customer_id | customer_name | city | grade | salesman_id |
+-----+
| 3002 | Nick Rimando | New York | 100 | 5001 |
+-----+
1 row in set (0.00 sec)
```

7. Find those salesmen with all information who gets the commission within a range of 0.12 and 0.14.

8. Find all those customers with all information whose names are ending with the letter 'n'.

```
mysql> select * from customer where customer_name like '%n';
  customer_id | customer_name
                                 citv
                                          grade
                                                  salesman_id
         3001
                                           NULL
                                                          NULL
                Brad Guzan
                                 London
         3008
                Julian Green
                                 London
                                            300
                                                          5002
 rows in set (0.00 sec)
```

9. Find those salesmen with all information whose name containing the 1st character is 'N' and the 4th character is 'l' and rests may be any character.

10. Find that customer with all information who does not get any grade except NULL.

```
mysql> select * from customer where grade is null;
+------+
| customer_id | customer_name | city | grade | salesman_id |
+-----+
| 3001 | Brad Guzan | London | NULL | NULL |
+-----+
1 row in set (0.00 sec)
```

11. Find the total purchase amount of all orders.

12. Find the number of salesman currently listing for all of their customers.

13. Find the highest grade for each of the cities of the customers.

```
mysql> select city, max(grade) as highest_grade from customer group by city;
             | highest_grade
 city
 London
                          300
 New York
                          200
                          200
 Moncow
  Paris
                          300
  California
                          200
 Berlin
                          100
 rows in set (0.01 sec)
```

14. Find the highest purchase amount ordered by each customer with their ID and highest purchase amount.

```
mysql> select customer_id, max(purch_amt) as highest_purchaseAmount from orders group by customer_id;
                highest_purchaseAmount |
 customer_id |
         3001
         3002
                                   5760
         3003
                                     75
                                   1983
         3004
                                    949
         3005
         3007
                                   2401
         3008
                                    250
         3009
                                   2480
 rows in set (0.00 sec)
```

15. Find the highest purchase amount ordered by each customer on a particular date with their ID, order date and highest purchase amount.

```
mysql> select customer_id,order_date,max(purch_amt) from orders group by customer_id,order_date;
  customer_id | order_date | max(purch_amt) |
         3005
                2016-10-05
                                        151
         3002
                2016-10-05
                                         65
         3009
                2016-10-10
                                       2480
         3009
                                        111
                2016-08-17
         3007
                2016-07-27
                                       2401
         3005
                2016-09-10
                                        949
         3002
                2016-09-10
                                       5760
         3001
                2016-09-10
                                        271
         3004
                2016-10-10
                                       1983
         3003
                2016-08-17
                                         75
         3008
                2016-06-27
                                        250
11 rows in set (0.00 sec)
```

16. Find the highest purchase amount on a date '2016-08-17' for each salesman with their ID.

17. Find the highest purchase amount with their customer ID and order date, for only those customers who have the highest purchase amount in a day is more than 2000.

```
mysql> select customer_id,order_date,max(purch_amt) from orders group by customer_id,order_date having max(purch_amt)>20
00;

| customer_id | order_date | max(purch_amt) |
| 3009 | 2016-10-10 | 2480 |
| 3007 | 2016-07-27 | 2401 |
| 3002 | 2016-09-10 | 5760 |
| 3008 in set (0.01 sec)
```

18. Write a SQL statement that counts all orders for a date August 17th, 2016.