Assignment 19

1) Create a view that shows all of the customers who have the highest ratings.

Ans: create view view_customers as select cnum, cname, rating from customers where rating=(select max(rating) from customers);

select * from view_customers;

```
D6_93079_Pravin>create view view_customers as
    -> select cnum, cname, rating from customers
    -> where rating=(select max(rating) from customers);
Query OK, 0 rows affected (0.01 sec)

D6_93079_Pravin>select * from view_customers;
+------+----------+--------+
| cnum | cname    | rating |
+------+----------+--------+
| 2004 | Grass    |    300 |
| 2008 | Cisneros |    300 |
+------+----------+--------+
2 rows in set (0.01 sec)
```

2) Create a view that shows the number of salespeople in each city.

Ans: create view view_salespeople_count as select city, count(snum) 'Total salespeople' from salespeople group by city;

select * from view_salespeople_count;

```
D6_93079_Pravin>create view view_salespeople_count
    -> as select city, count(snum) 'Total salespeople'
    -> from salespeople
    -> group by city;
Query OK, 0 rows affected (0.01 sec)

D6_93079_Pravin>select * from view_salespeople_count;
+-----------+-------------------+
| city      | Total salespeople |
+-----------+-------------------+
| London    |                 2 |
| San Jose  |                 1 |
| Barcelona |                 1 |
| New York  |                 1 |
+-----------+-------------------+
4 rows in set (0.01 sec)
```

3) Create a view that shows the average and total orders for each salesperson after his or her name. Assume all names are unique.

Ans: create view view_salespeople_orders as select s.sname, avg(o.amt) 'Average', count(o.onum) 'Total Orders' from orders o join salespeople s on s.snum=o.snum group by s.sname;

select * from view_salespeople_orders;

```
D6_93079_Pravin>create view view_salespeople_orders
    -> as select s.sname, avg(o.amt) 'Average'
    -> , count(o.onum) 'Total Orders' from orders o
    -> join salespeople s on s.snum=o.snum
    -> group by s.sname;
Query OK, 0 rows affected (0.01 sec)

D6_93079_Pravin>select * from view_salespeople_orders;
+---------+-------------+--------------+
| sname   | Average     | Total Orders |
+---------+-------------+--------------+
| Peel    | 5127.356628 |            3 |
| Serres  | 2182.050049 |            3 |
| Motika  | 1900.099976 |            1 |
| Rifkin  |  558.425017 |            2 |
| Axelrod | 1713.229980 |            1 |
+---------+-------------+--------------+
5 rows in set (0.01 sec)
```

4) Create a view that shows each salesperson with multiple customers.

Ans: create view view_salespeople_customers as select snum, sname from salespeople where snum in (select snum from customers group by snum having count(cnum)>1);

select * from view_salespeople_customers;

```
D6_93079_Pravin>create view view_salespeople_customers
    -> as select snum, sname from salespeople
    -> where snum in (select snum from customers
    -> group by snum having count(cnum)>1);
Query OK, 0 rows affected (0.04 sec)

D6_93079_Pravin>select * from view_salespeople_customers;
+------+--------+
| snum | sname  |
+------+--------+
| 1001 | Peel   |
| 1002 | Serres |
+------+--------+
2 rows in set (0.01 sec)
```