## Assignment – 19 Views.

 Create a view that shows all of the customers who have the highest ratings. CREATE VIEW HighRatingCustomers AS SELECT \*

FROM Customers

WHERE Rating = (SELECT MAX(Rating) FROM Customers);

## SELECT \* FROM HighRatingCustomers;

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

CREATE VIEW SalespeopleCountByCity AS SELECT City, COUNT(\*) AS NumSalespeople FROM Salespeople GROUP BY City;

## SELECT \* FROM SalespeopleCountByCity;

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

CREATE VIEW SalespersonOrderStats AS SELECT s.Sname, AVG(o.Amt) AS AvgOrderAmount, SUM(o.Amt) AS TotalOrderAmount FROM Salespeople s JOIN Orders o ON s.Snum = o.Snum GROUP BY s.Sname;

## SELECT \* FROM SalespersonOrderStats;

```
D3_92819_Shubham>CREATE VIEW SalespersonOrderStats AS
    -> SELECT s.Sname,
-> AVG(o.Amt) AS AvgOrderAmount,
-> SUM(o.Amt) AS TotalOrderAmount
    -> FROM Salespeople s
    -> JOIN Orders o ON s.Snum = o.Snum
-> GROUP BY s.Sname;
Query OK, 0 rows affected (0.02 sec)
D3_92819_Shubham>SELECT * FROM SalespersonOrderStats;
 Sname
           | AvgOrderAmount | TotalOrderAmount
  Rifkin
                  558.425017
                                            1116.85
                 5127.356628
                                           15382.07
  Peel
  Motika
                 1900.099976
2182.050049
                                            1900.10
                                            6546.15
  Serres
                 1713.229980
                                            1713.23
  Axelrod
5 rows in set (0.00 sec)
D3_92819_Shubham>
```

4) Create a view that shows each salesperson with multiple customers CREATE VIEW SalespeopleWithMultipleCustomers AS SELECT s.Snum, s.Sname, s.City, s.Comm, COUNT(c.Cnum) AS NumCustomers FROM Salespeople s
JOIN Customers c ON s.Snum = c.Snum
GROUP BY s.Snum, s.Sname, s.City, s.Comm
HAVING COUNT(c.Cnum) > 1;

SELECT \* FROM SalespeopleWithMultipleCustomers;

```
D3_92819_Shubham>CREATE VIEW SalespeopleWithMultipleCustomers AS
    -> SELECT s.Snum, s.Sname, s.City, s.Comm, COUNT(c.Cnum) AS NumCustomers
    -> FROM Salespeople s
    -> JOIN Customers c ON s.Snum = c.Snum
-> GROUP BY s.Snum, s.Sname, s.City, s.Comm
-> HAVING COUNT(c.Cnum) > 1;
Query OK, 0 rows affected (0.02 sec)
D3_92819_Shubham>SELECT * FROM SalespeopleWithMultipleCustomers;
 Snum | Sname
                  City
                               Comm
                                        NumCustomers
  1001
          Peel
                                0.12
                                                     2
                  London
                                                     2 i
  1002 | Serres | San Jose | 0.13
2 rows in set (0.00 sec)
D3_92819_Shubham>
```