

Assignment – 19

Views.

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

```
CREATE VIEW HighestRatedCustomers AS
SELECT * FROM Customers
WHERE Rating = (SELECT MAX(Rating) FROM Customers);
```

```
w1_89793_Saurabh>CREATE VIEW HighestRatedCustomers AS
-> SELECT * FROM Customers
-> WHERE Rating = (SELECT MAX(Rating) FROM Customers);
Query OK, 0 rows affected (0.01 sec)
```

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

```
CREATE VIEW SalespeoplePerCity AS
SELECT City, COUNT(*) AS num_salespeople FROM Salespeople
GROUP BY City;
```

```
w1_89793_Saurabh>CREATE VIEW SalespeoplePerCity AS
-> SELECT City, COUNT(*) AS num_salespeople FROM Salespeople
-> GROUP BY City;
Query OK, 0 rows affected (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.

```
CREATE VIEW SalespersonOrderStats AS
SELECT S.sname, COUNT(O.onum) AS total_orders,
       AVG(O.amt) AS avg_order_amount,
       SUM(O.amt) AS total_order_amount
FROM Salespeople S
JOIN Orders O ON S.snum = O.snum
GROUP BY S.sname;
```

```
w1_89793_Saurabh>CREATE VIEW SalespersonOrderStats AS
-> SELECT S.sname,
->        COUNT(O.onum) AS total_orders,
->        AVG(O.amt) AS avg_order_amount,
->        SUM(O.amt) AS total_order_amount
-> FROM Salespeople S
-> JOIN Orders O ON S.snum = O.snum
-> GROUP BY S.sname;
Query OK, 0 rows affected (0.02 sec)
```

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

```
CREATE VIEW SalespeopleWithMultipleCustomers AS
```

```
SELECT S.snum, S.sname, COUNT(DISTINCT C.cnum) AS customer_count
```

```
FROM Salespeople S
```

```
JOIN Customers C ON S.snum = C.snum
```

```
GROUP BY S.snum, S.sname
```

```
HAVING COUNT(DISTINCT C.cnum) > 1;
```

```
w1_89793_Saurabh>CREATE VIEW SalespeopleWithMultipleCustomers AS
-> SELECT S.snum, S.sname, COUNT(DISTINCT C.cnum) AS customer_count
-> FROM Salespeople S
-> JOIN Customers C ON S.snum = C.snum
-> GROUP BY S.snum, S.sname
-> HAVING COUNT(DISTINCT C.cnum) > 1;
Query OK, 0 rows affected (0.02 sec)
```