Assignment – 19

Views.

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

```
W2_89692_Aditya>CREATE VIEW v1 AS
    -> SELECT cnum, rating
    -> FROM customers
    -> WHERE rating = (SELECT MAX(rating) FROM customers);
Query OK, 0 rows affected (0.01 sec)

W2_89692_Aditya>select * from v1;
+-------+--------+
| cnum  | rating |
+-------+--------+
| 2004  |    600 |
| 2008  |    600 |
+-------+--------+
2 rows in set (0.00 sec)
```

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

```
W2_89692_Aditya>create view v2
    -> as
    -> select city,count(snum) from salespeople group by city;
Query OK, 0 rows affected (0.01 sec)

W2_89692_Aditya>select * from v2;
+----------+-------------+
| city     | count(snum) |
+----------+-------------+
| London   |           2 |
| Bacelona |           1 |
| New York |           1 |
| San Jose |           2 |
+----------+-------------+
4 rows in set (0.02 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.

```
W2_89692_Aditya>create or replace view v3 as
    -> select sname,avg(amt) as avg_amt,sum(amt) as total_amt
    -> from salespeople,orders
    -> where salespeople.snum=orders.snum
    -> group by sname;
Query OK, 0 rows affected (0.01 sec)

W2_89692_Aditya>select * from v3;
+---------+-------------+------------+
| sname   | avg_amt     | total_amt  |
+---------+-------------+------------+
| Peel    | 2745.095001 |    5490.19 |
| Motika  | 1900.099976 |    1900.10 |
| Rifkin  |  558.425017 |    1116.85 |
| Axelrod | 1713.229980 |    1713.23 |
| Serres  | 1964.025024 |    7856.10 |
+---------+-------------+------------+
5 rows in set (0.00 sec)
```

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

```
W2_89692_Aditya>CREATE VIEW v4 AS
    -> SELECT sname
    -> FROM salespeople
    -> WHERE snum IN (
    ->       SELECT snum
    ->       FROM customers
    ->       GROUP BY snum
    ->       HAVING COUNT(*) > 1
    -> );
Query OK, 0 rows affected (0.01 sec)

W2_89692_Aditya>select * from v4;
+--------+
| sname  |
+--------+
| Peel   |
| Serres |
+--------+
2 rows in set (0.00 sec)
```