Assignment –7

Summarizing Data with Aggregate Functions.

1) Write a query that counts all orders for October 3.

```
W2_92894_Ekta>select count(*)
    -> FROM orders
    -> WHERE odate = '1990-10-03';
+----------+
| count(*) |
+----------+
|        5 |
+----------+
1 row in set (0.00 sec)
```

2) Write a query that counts the number of different non-NULL city values in the Customers table.

```
W2_92894_Ekta>select count(city) from customers
    -> where city != 'null';
+-------------+
| count(city) |
+-------------+
|           7 |
+-------------+
1 row in set (0.04 sec)
```

3) Write a query that selects each customer's smallest order.

```
W2_92894_Ekta>select min(amt) from orders
    -> group by cnum;
+----------+
| min(amt) |
+----------+
|    18.69 |
|   767.19 |
|  1900.10 |
|  5160.45 |
|  1713.23 |
|    75.75 |
|  4723.00 |
+----------+
7 rows in set (0.02 sec)
```

4) Write a query that selects the first customer, in alphabetical order, whose name begins with G.

```
W2_92894_Ekta>select * from customers
    -> where cname >= 'G'
    -> order by cname;
+------+----------+----------+--------+------+
| Cnum | Cname    | City     | Rating | Snum |
+------+----------+----------+--------+------+
| 2002 | Giovanni | Rome     |    200 | 1003 |
| 2004 | Grass    | berlin   |    300 | 1002 |
| 2001 | Hoffman  | London   |    100 | 1001 |
| 2003 | Liu      | San Jose |    200 | 1002 |
| 2007 | Pereira  | Rome     |    100 | 1004 |
+------+----------+----------+--------+------+
5 rows in set (0.02 sec)
```

5) Write a query that selects the highest rating in each city.

```
W2_92894_Ekta>select max(rating) from customers
    -> group by city;
+-------------+
| max(rating) |
+-------------+
|         100 |
|         200 |
|         300 |
|         300 |
+-------------+
4 rows in set (0.02 sec)
```

6) Write a query that counts the number of salespeople registering orders for each day. (If a salesperson has more than one order on a given day, he or she should be counted only once.)

```
W2_92894_Ekta>select Snum, count(distinct Odate) from orders group by snum;
+------+----------------------+
| Snum | count(distinct Odate) |
+------+----------------------+
| 1001 |                    3 |
| 1002 |                    3 |
| 1003 |                    1 |
| 1004 |                    1 |
| 1007 |                    1 |
+------+----------------------+
5 rows in set (0.02 sec)
```