Assignment –7

Summarizing Data with Aggregate Functions.

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

```
select count(*) from orders where odate = '1990-10-03';
+----------+
| count(*) |
+----------+
|        5 |
+----------+
```

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

Ans :

```
select count(distinct city) from customers;
+----------------------+
| count(distinct city) |
+----------------------+
|                    4 |
+----------------------+
```

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

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

Ans:

```
select * from customers where cname like 'g%' order by cname limit 1;
+------+----------+------+--------+------+
| cnum | cname    | city | rating | snum |
+------+----------+------+--------+------+
| 2002 | Giovanni | Rome |    200 | 1003 |
+------+----------+------+--------+------+
```

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

Ans:

```
select city,max(rating) from customers group by city;
+----------+-------------+
| city     | max(rating) |
+----------+-------------+
| London   |         100 |
| Rome     |         200 |
| San Jose |         300 |
```

```
| Berlin   |         300 |
+----------+-------------+
```

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.).

Ans:

```
select odate,count(distinct snum) from orders group by odate;
+------------+----------------------+
| odate      | count(distinct snum) |
+------------+----------------------+
| 1990-10-03 |                    4 |
| 1990-10-04 |                    2 |
| 1990-10-05 |                    1 |
| 1990-10-06 |                    2 |
+------------+----------------------+
```