Assignment –7

Summarizing Data with Aggregate Functions.

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

Ans-select Odate,count(Odate) as 'count of orders' from orders where Odate='03-10-1990';

```
mysql> select Odate,count(Odate) as 'count of orders' from orders  where Odate='1990-10-03';
+------------+-----------------+
| Odate      | count of orders |
+------------+-----------------+
| 1990-10-03 |               5 |
+------------+-----------------+
1 row in set (0.01 sec)
```

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

Ans-select count(Cnum) from customers where city is not null;

```
mysql> select count(Cnum) from customers where city is not null;
+--------------+
| count(Cnum) |
+--------------+
|           7 |
+--------------+
1 row in set (0.00 sec)
```

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

Ans-SELECT Cnum, MIN(Amt) AS SmallestOrder FROM orders GROUP BY Cnum;

```
mysql> SELECT Cnum, MIN(Amt) AS SmallestOrder
    -> FROM orders
    -> GROUP BY Cnum;
+------+---------------+
| Cnum | SmallestOrder |
+------+---------------+
| 2008 |         18.69 |
| 2001 |        767.19 |
| 2007 |       1900.10 |
| 2003 |       5160.45 |
| 2002 |       1713.23 |
| 2004 |         75.75 |
| 2006 |       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.

Ans: select Cname from customers where Cname like 'G%' order by Cname;

```
mysql> select Cname from customers where Cname like 'G%' order by Cname;
+----------+
| Cname    |
+----------+
| Giovanni |
| Grass    |
+----------+
2 rows in set (0.01 sec)
```

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

Ans-select city,max(rating) from customers group by city;

```
mysql> select city,max(rating) from customers group by city;
+----------+-------------+
| city     | max(rating) |
+----------+-------------+
| London   |         100 |
| Rome     |         200 |
| San Jose |         300 |
| Berlin   |         300 |
+----------+-------------+
4 rows in set (0.01 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.).

Ans-select odate,count(distinct(snum)) from orders group by odate;

```
mysql> 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 |
+------------+----------------------+
```