Assignment –7
Summarizing Data with Aggregate Functions.
1) Write a query that counts all orders for October 3.
=>
```
mysql> select count(Odate) from orders where Odate='1990-10-03';
+--------------+
| count(Odate) |
+--------------+
|            5 |
```

2) Write a query that counts the number of different non-NULL city values in the Customers table.
=>
```
mysql> SELECT COUNT(distinct(CITY)) FROM CUSTOMERS;
+------------------------+
| COUNT(distinct(CITY)) |
+------------------------+
|                      4 |
+------------------------+
```

3) Write a query that selects each customer’s smallest order.
=>
```
mysql> select min(amt) from orders group by cnum;
+----------+
| min(amt) |
+----------+
|   767.19 |
|  1900.00 |
|    18.69 |
|  5160.45 |
|  1713.23 |
|    75.75 |
|  4723.00 |
+----------+
```

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

```
mysql> select * from customers where Cname like "G%" order by 1 limit 1;
+------+----------+------+--------+------+
| Cnum | Cname    | City | Rating | Snum |
+------+----------+------+--------+------+
| 2002 | Giovanni | Rome |    200 | 1003 |
+------+----------+------+--------+------+
```

5) Write a query that selects the highest rating in each city.
=>
```
mysql> 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.).
=>
```
mysql> select distinct odate,count(distinct cnum) from
```

```
orders,salespeople where orders.snum=salespeople.snum g
roup by odate;
+------------+----------------------+
| odate      | count(distinct cnum) |
+------------+----------------------+
| 1990-10-03 |                    4 |
| 1990-10-04 |                    2 |
| 1990-10-05 |                    1 |
| 1990-10-06 |                    2 |
+------------+----------------------+
```