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 |
+--------------+
1 row in set (0.04 sec)
```

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

```
mysql> SELECT COUNT(ifnull(City,0)) FROM CUSTOMERS;
+-----------------------+
| COUNT(ifnull(City,0)) |
+-----------------------+
|                     7 |
+-----------------------+
1 row in set (0.02 sec)
```

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

```
mysql> SELECT Cnum,min(Amt) FROM ORDERS group by Cnum;
+------+----------+
| Cnum | min(Amt) |
+------+----------+
| 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 (0.01 sec)
```

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

```
mysql> SELECT MIN(Cnum) FROM CUSTOMERS WHERE Cname LIKE 'G%';
+-----------+
| MIN(Cnum) |
+-----------+
|      2002 |
+-----------+
1 row in set (0.00 sec)
```

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 |
+----------+-------------+
4 rows in set (0.00 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.).

```
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 |
+------------+----------------------+
4 rows in set (0.01 sec)
```