Assignment –7
Summarizing Data with Aggregate Functions.

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

Query:

```
select count(Odate) 'Orders on 3rd Oct' from orders
  -> where Odate = '1990-10-03';
```

```
D3_93025_Omkar>select count(Odate) 'Orders on 3rd Oct' from orders
    -> where Odate = '1990-10-03';
+-------------------+
| Orders on 3rd Oct |
+-------------------+
|                 5 |
+-------------------+
```

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

```
select count(distinct City) 'Distinct City Count' from customers
  -> where city is not NULL;
```

```
D3_93025_Omkar>select count(distinct City) 'Distinct City Count' from customers
    -> where city is not NULL;
+---------------------+
| Distinct City Count |
+---------------------+
|                   4 |
+---------------------+
```

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

```
select Cnum,min(Amt) from orders
  -> group by Cnum;
```

```
D3_93025_Omkar>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 |
+------+----------+
```

4) Write a query that selects the first customer, in alphabetical order,

whose name begins with G.

Query:

```
select cname from customers
   -> where cname >= 'G'
   -> order by 1;
```

```
D3_93025_Omkar>select cname from customers
    -> where cname >= 'G'
    -> order by 1;
+----------+
| cname    |
+----------+
| Giovanni |
| Grass    |
| Hoffman  |
| Liu      |
| Pereira  |
+----------+
```

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

Query:

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

```
D3_93025_Omkar>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.).

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

```
D3_93025_Omkar>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 |
+------------+----------------------+
```