Assignment –7

Summarizing Data with Aggregate Functions.

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

```
KD3_86676_Deependra@>select count(*) from orders where Odate = '1990-10-03';
+----------+
| count(*) |
+----------+
|        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:

```
KD3_86676_Deependra@>select count(*) from customers where City is not null;
+----------+
| count(*) |
+----------+
|        7 |
+----------+
1 row in set (0.00 sec)

KD3_86676_Deependra@>select city,count(city) from customers where City is not null Group
 by City;
+-----------+--------------+
| city      | count(city)  |
+-----------+--------------+
| London    |            2 |
| Rome      |            2 |
| San jose  |            2 |
| Berlin    |            1 |
+-----------+--------------+
4 rows in set (0.00 sec)
```

   3. **Write a query that selects each customer's smallest order.**
   Ans:

```
KD3_86676_Deependra@>select Onum,min(amt) from orders group by onum;
+------+----------+
| Onum | min(amt) |
+------+----------+
| 3001 |    18.69 |
| 3003 |   767.19 |
| 3002 |  1900.10 |
| 3005 |  5160.45 |
| 3006 |  1098.16 |
| 3009 |  1713.23 |
| 3007 |    75.75 |
| 3008 |  4723.00 |
| 3010 |  1309.95 |
| 3011 |  9891.88 |
+------+----------+
10 rows in set (0.00 sec)
```

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

Ans;

```
KD3_86676_Deependra@>select min(Cname) from customers where Cname like 'G%';
+-------------+
| min(Cname)  |
+-------------+
| Giovanni    |
+-------------+
1 row in set (0.00 sec)
```

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

Ans:

```
KD3_86676_Deependra@>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.).

Ans:

```
KD3_86676_Deependra@>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 (0.00 sec)

KD3_86676_Deependra@>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 (0.00 sec)
```