

Assignment –7 Summarizing Data with Aggregate Functions.

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

```
KD3_86672_saksham@>SELECT COUNT(ODATE) FROM ORDERS
-> WHERE ODATE = '1990-10-03';
+-----+
| COUNT(ODATE) |
+-----+
|           5 |
+-----+
1 row in set (0.00 sec)
```

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

```
KD3_86672_saksham@>select count(*) from customers where city is not null;
+-----+
| count(*) |
+-----+
|         7 |
+-----+
1 row in set (0.00 sec)

KD3_86672_saksham@>select distinct city,count(*) from customers where city is
not null group by city;
+-----+-----+
| city    | count(*) |
+-----+-----+
| 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.

```
KD3_86672_saksham@>select distinct 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.

```
KD3_86672_saksham@>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.

```
KD3_86672_saksham@>select distinct 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.).

```
KD3_86672_saksham@>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)
```