SQL Assignment – 7

Summarizing Data with Aggregate Functions.

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

```
D1_86939_Prajwal>select count(onum) from orders where Odate = '1990-10-03';
+-------------+
| count(onum) |
+-------------+
|           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.

```
D1_86939_Prajwal>select count(distinct (city)) from customers where city is not Null;
+-----------------------+
| count(distinct (city)) |
+-----------------------+
|                     4 |
+-----------------------+
1 row in set (0.00 sec)
```

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

```
D1_86939_Prajwal>select cnum , min(amt) from orders
    -> group by cnum
    -> order by 1;
+------+----------+
| cnum | min(amt) |
+------+----------+
| 2001 |   767.19 |
| 2002 |  1713.23 |
| 2003 |  5160.45 |
| 2004 |    75.72 |
| 2006 |  4723.00 |
| 2007 |  1900.10 |
| 2008 |    18.69 |
+------+----------+
7 rows in set (0.00 sec)
```

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

```
D1_86939_Prajwal>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.

```
D1_86939_Prajwal>select city, max(rating), sysdate() from customers group by city order by 1;

+----------+-------------+---------------------+
| city     | max(rating) | sysdate()           |
+----------+-------------+---------------------+
| Berlin   |         300 | 2024-09-12 15:29:37 |
| London   |         100 | 2024-09-12 15:29:37 |
| Rome     |         200 | 2024-09-12 15:29:37 |
| San Jose |         300 | 2024-09-12 15:29:37 |
+----------+-------------+---------------------+
4 rows in set (0.01 sec)
```

6) Write a query that counts the number of salespeople registering orders for each day. (Ifa salesperson has more than one order on a givenday, he or she should be counted only once.). 6) Write a query that counts the number of salespeople registering orders for each day. (Ifa salesperson has more than one order on a givenday, he or she should be counted only once.).

```
D1_86939_Prajwal>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)
```