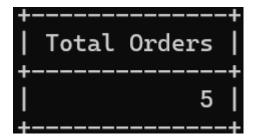**Assignment –7 Summarizing Data with Aggregate Functions.**

1) Write a query that counts all orders for October 3.
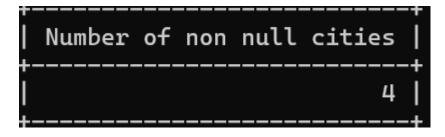
   select count(Odate) "Total Orders" from ORDERS

   -> where Odate = '1990-10-03';

```
+---------------+
| Total Orders  |
+---------------+
|             5 |
+---------------+
```

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

select count(Distinct City) "Number of non null cities" from Customers;

```
+---------------------------+
| Number of non null cities |
+---------------------------+
|                         4 |
+---------------------------+
```

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

select min(Amt) from ORDERS

   -> group by Cnum;

```
+-----------+
| min(Amt)  |
+-----------+
|     18.69 |
|    767.19 |
|   1900.10 |
|   5160.45 |
|   1713.23 |
|     75.75 |
|   4723.00 |
+-----------+
```

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

SELECT cname

   -> FROM Customers

   -> WHERE cname LIKE 'G%'

   -> ORDER BY cname ASC

   -> LIMIT 1;

```
+----------+
| cname    |
+----------+
| Giovanni |
+----------+
```

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

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) "Salespeople Count"

   -> from ORDERS

   -> group by Odate;

```
+------------+-------------------+
| Odate      | Salespeople Count |
+------------+-------------------+
| 1990-10-03 |                 4 |
| 1990-10-04 |                 2 |
| 1990-10-05 |                 1 |
| 1990-10-06 |                 2 |
+------------+-------------------+
```