

Assignment -7  
Summarizing Data with Aggregate Functions.

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

```
KD3_86927_Vivek@>SELECT COUNT(*) AS NOOFORDERS
-> FROM ORDERS;
+-----+
| NOOFORDERS |
+-----+
|          10 |
+-----+
1 row in set (0.00 sec)

KD3_86927_Vivek@>|
```

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

```
KD3_86927_Vivek@>SELECT COUNT(DISTINCT CITY) AS CITYCOUNT
-> FROM CUSTOMERS;
+-----+
| CITYCOUNT |
+-----+
|           4 |
+-----+
1 row in set (0.00 sec)

KD3_86927_Vivek@>|
```

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

```
KD3_86927_Vivek@>SELECT CNUM, MIN(AMT) MIN_AMOUNT
-> FROM ORDERS
-> GROUP BY CNUM;
+-----+-----+
| CNUM | MIN_AMOUNT |
+-----+-----+
| 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 (0.00 sec)
```

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

```
KD3_86927_Vivek@>SELECT MIN(CNAME) CNAME FROM CUSTOMERS
-> WHERE CNAME LIKE 'G%'
-> ORDER BY CNAME;
+-----+
| CNAME |
+-----+
| Giovanni |
+-----+
1 row in set (0.00 sec)
```

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

```
KD3_86927_Vivek@>SELECT MAX(RATING) RATING, CITY
-> FROM CUSTOMERS
-> GROUP BY CITY;
+-----+-----+
| RATING | CITY   |
+-----+-----+
| 100    | London |
| 200    | Rome   |
| 300    | San Jose |
| 300    | Berlin |
+-----+-----+
4 rows in set (0.00 sec)

KD3_86927_Vivek@>
```

- 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_86927_Vivek@>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_86927_Vivek@>
```