

Assignment –7

Summarizing Data with Aggregate Functions.

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

Ans:-

```
KD3_86718_yagywalky@>select count(Onum) from orders
-> where Odate = '1990-10-03';
+-----+
| count(Onum) |
+-----+
|           5 |
+-----+
1 row in set (0.02 sec)
```

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

Ans:-

```
KD3_86718_yagywalky@>select count(*) from customers where City is not null;
+-----+
| count(*) |
+-----+
|         7 |
+-----+
1 row in set (0.00 sec)

KD3_86718_yagywalky@>select distinct 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_86718_yagywalky@>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 (0.00 sec)
```

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

Ans:-

```
KD3_86718_yagywalky@>select min(Cname) from customers
-> where Cname > 'G' AND Cname < 'H';
+-----+
| min(Cname) |
+-----+
| Giovanni    |
+-----+
1 row in set (0.00 sec)
```

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

Ans :-

```
KD3_86718_yagywalky@>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.).

Ans:-

```
KD3_86718_yagywalky@>select Odate, count( distinct snum) from orders
-> group by Odate;
```

| Odate | count(distinct snum) |
|------------|-----------------------|
| 1090-10-05 | 1 |
| 1090-10-06 | 2 |
| 1990-10-03 | 4 |
| 1990-10-04 | 2 |

```
4 rows in set (0.00 sec)
```