

Assignment -7  
Summarizing Data with Aggregate Functions.

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

```
D3_92819_Shubham>select count(*) totalOrder from orders where Odate = '1990-10-03';
+-----+
| totalOrder |
+-----+
|          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.

```
D3_92819_Shubham>select count(*) notnullcity from customers where city != 'NULL';
+-----+
| notnullcity |
+-----+
|           7 |
+-----+
1 row in set (0.00 sec)
```

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

```
D3_92819_Shubham>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 |    75.75 |
| 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.

```
D3_92819_Shubham>select * from customers where cname like 'G%'
-> order by cname
-> limit 1;
+-----+-----+-----+-----+-----+
| Cnum | Cname   | City | Rating | Snum |
+-----+-----+-----+-----+-----+
| 2002 | Giovanni | Rome | 200    | 1003 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

D3_92819_Shubham>
```

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

```
D3_92819_Shubham>select city, max(rating) from customers
-> group by city
-> order by 1;
+-----+-----+
| city   | max(rating) |
+-----+-----+
| Berlin | 300         |
| London | 100         |
| Rome   | 200         |
| San Jose | 300        |
+-----+-----+
4 rows in set (0.01 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.).

```
D3_92819_Shubham>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)
```