

Assignment –7

Summarizing Data with Aggregate Functions.

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

```
select count(Odate) from orders where odate = '1990-10-03';
```

```
D3_92972_Shubham>select count(Odate) from orders where odate = '1990-10-03';
+-----+
| count(Odate) |
+-----+
|           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.

```
select count(city) from customers where city is not null;
```

```
D3_92972_Shubham>select count(city) from customers where city is not null;
+-----+
| count(city) |
+-----+
|           7 |
+-----+
1 row in set (0.00 sec)
```

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

```
select min(amt), cnum from orders group by cnum;
```

```
D3_92972_Shubham>select min(amt), cnum from orders group by cnum;
+-----+-----+
| min(amt) | cnum |
+-----+-----+
|    18.69 | 2008 |
|   767.19 | 2001 |
|  1900.10 | 2007 |
|  5160.45 | 2003 |
|  1713.23 | 2002 |
|    75.75 | 2004 |
|  4723.00 | 2006 |
+-----+-----+
7 rows in set (0.01 sec)
```

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

select min(cname) from customers where cname >'G' and cname <'H';

```
D3_92972_Shubham>select min(cname) from customers where cname >'G' and cname <'H';
+-----+
| min(cname) |
+-----+
| Giovanni   |
+-----+
```

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

select City, max(rating) from customers group by city;

```
D3_92972_Shubham>select 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.).

select odate,count(distinct odate,snum) from orders group by odate;

```
D3_92972_Shubham>select odate,count(distinct odate,snum) from orders group by odate;
+-----+-----+
| odate      | count(distinct odate,snum) |
+-----+-----+
| 1990-10-03 | 4 |
| 1990-10-04 | 2 |
| 1990-10-05 | 1 |
| 1990-10-06 | 2 |
+-----+-----+
4 rows in set (0.00 sec)
```