

Assignment –7
Summarizing Data with Aggregate Functions.

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

Query:

```
select count(ODate) 'Total Orders on 3rd October' from orders
    -> where ODate = '1990-10-03';
```

```
D3_93024_Abhishek>select count(ODate) 'Total Orders on 3rd October' from orders
    -> where ODate = '1990-10-03';
+-----+
| Total Orders on 3rd October |
+-----+
|                             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.

Query:

```
select count(distinct city) 'Unique Cities' from customers
    -> where city is not null;
```

```
D3_93024_Abhishek>select count(distinct city) 'Unique Cities' from customers
    -> where city is not null;
+-----+
| Unique Cities |
+-----+
|               4 |
+-----+
1 row in set (0.00 sec)
```

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

Query:

```
select cnum , min(amt) 'Smallest Order' from orders
    -> group by cnum;
```

Image:

```
D3_93024_Abhishek>select Cnum , min(amt) 'Smallest Order' from orders
-> group by cnum;
```

Cnum	Smallest Order
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.

Query:

```
SELECT MIN(cname) 'Min Name' from customers
-> where cname like 'G%';
```

Image:

```
D3_93024_Abhishek>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.

Query:

```
select City ,max(rating) 'Highest Rating' from customers group by city;
```

```
D3_93024_Abhishek>select City ,max(rating) 'Highest Rating' from customers g
roup by city;
```

City	Highest 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.).

Query:

select Odate,COUNT(DISTINCT Snum) from orders group by Odate;

image:

```
D3_93024_Abhishek>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)
```