

Assignment –7
Summarizing Data with Aggregate Functions.

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

```
mysql> select sum(odate='1990-10-03') as count_of_orders from orders;
+-----+
| count_of_orders |
+-----+
|                4 |
+-----+
1 row in set (0.00 sec)

mysql>
```

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

```
mysql> select count(distinct city) from customers
-> where city is not null;
+-----+
| count(distinct city) |
+-----+
|                    4 |
+-----+
1 row in set (0.05 sec)

mysql>
```

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

```
mysql> select cnum, min(amt) from orders
-> group by cnum;
+-----+-----+
| cnum | min(amt) |
+-----+-----+
| 2008 |    18.69 |
| 2001 |   767.19 |
| 2003 |  5160.45 |
| 2002 |  1713.23 |
| 2004 |    75.75 |
| 2006 |  4723.00 |
+-----+-----+
6 rows in set (0.05 sec)

mysql>
```

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

```
line 2
mysql> 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 (0.03 sec)

mysql>
```

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

```
mysql> 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 (0.05 sec)

mysql> 
```

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.).

```
mysql> select odate, count(DISTINCT snum) from orders
-> group by odate;
+-----+-----+
| odate      | count(DISTINCT snum) |
+-----+-----+
| 1990-10-03 | 3                     |
| 1990-10-04 | 2                     |
| 1990-10-05 | 1                     |
| 1990-10-06 | 2                     |
+-----+-----+
4 rows in set (0.02 sec)

mysql> 
```