

**Assignment –7**  
**Summarizing Data with Aggregate Functions.**

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

```
mysql> SELECT COUNT(odate)
-> FROM orders
-> WHERE odate='1990-10-03';
+-----+
| COUNT(odate) |
+-----+
|          5   |
+-----+
1 row in set (0.01 sec)
```

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

```
mysql> SELECT COUNT(DISTINCT City) Distinct_City_Count
-> FROM customers;
+-----+
| Distinct_City_Count |
+-----+
|          4          |
+-----+
1 row in set (0.00 sec)
```

- 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   |
| 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.

```
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 (0.00 sec)
```

- 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 (0.00 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.).

```
mysql> 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)
```