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Assignment 7

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

```
mysql> select count(*) from orders where odate='1990-10-03';
+-----+
| count(*) |
+-----+
|          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) as City from customers where city is not null;
+-----+
| City |
+-----+
|      4 |
+-----+
1 row in set (0.01 sec)
```

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

```
mysql> select orders.Cnum as 'CID', Customers.cname as 'Name', Customers.City, min(amt) as 'Smallest order' from orders, customers
-> where orders.cnum=customers.cnum
-> group by orders.cnum, Customers.cname, Customers.city;
+-----+-----+-----+-----+
| CID | Name | City | Smallest order |
+-----+-----+-----+-----+
| 2008 | Cisneros | San Jose | 18.69 |
| 2001 | Hoffman | London | 767.19 |
| 2007 | Pereira | Rome | 1900.10 |
| 2003 | Liu | San Jose | 5160.45 |
| 2002 | Giovanni | Rome | 1713.23 |
| 2004 | Grass | Berlin | 75.75 |
| 2006 | Clemens | London | 4723.00 |
+-----+-----+-----+-----+
7 rows in set (0.01 sec)
```

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

```
mysql> select * from customers
-> where Cname >='G' and Cname<'H'
-> order by 2;
```

Cnum	Cname	City	Rating	Snum
2002	Giovanni	Rome	200	1003
2004	Grass	Berlin	300	1002

```
2 rows in set (0.01 sec)
```

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

```
mysql> select t.Cnum,t.Cname,t.City,t.Rating
-> from Customers t
-> where (t.City,t.Rating) in(
-> select City,max(Rating) from Customers
-> Group by City);
```

Cnum	Cname	City	Rating
2001	Hoffman	London	100
2002	Giovanni	Rome	200
2004	Grass	Berlin	300
2006	Clemens	London	100
2008	Cisneros	San Jose	300

```
5 rows in set (0.02 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)
```