Assignment 7

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

```
      C:\WINDOWS\system32\cmd.   ×    +   ∨                                    —    □    ×

| Database            |
+---------------------+
| bank                |
| exercise            |
| harshal             |
| homework            |
| information_schema  |
| mysql               |
| performance_schema  |
| sakila              |
| sys                 |
| world               |
+---------------------+
10 rows in set (0.04 sec)

W3_93086_Harshal>use harshal;
Database changed
W3_93086_Harshal>select * from orders;
+-------+---------+------------+------+------+
| Onum  | Amt     | Odate      | Cnum | Snum |
+-------+---------+------------+------+------+
| 3001  |   18.69 | 1990-10-03 | 2008 | 1007 |
| 3003  |  767.19 | 1990-10-03 | 2001 | 1001 |
| 3002  | 1900.10 | 1990-10-03 | 2007 | 1004 |
| 3005  | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 3006  | 1098.16 | 1990-10-03 | 2008 | 1007 |
| 3009  | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 3007  |   75.75 | 1990-10-04 | 2004 | 1002 |
| 3008  | 4723.00 | 1990-10-05 | 2006 | 1001 |
| 3010  | 1309.95 | 1990-10-06 | 2004 | 1002 |
| 3011  | 9891.88 | 1990-10-06 | 2006 | 1001 |
+-------+---------+------------+------+------+
10 rows in set (0.01 sec)

W3_93086_Harshal>select count(Onum) from orders where Odate = '1990-10-03';
+-------------+
| count(Onum) |
+-------------+
|           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.

```
+--------------------+
| bank               |
| exercise           |
| harshal            |
| homework           |
| information_schema |
| mysql              |
| performance_schema |
| sakila             |
| sys                |
| world              |
+--------------------+
10 rows in set (0.00 sec)

W3_93086_Harshal>use harshal;
Database changed
W3_93086_Harshal>select * from customers;
+------+----------+----------+--------+------+
| Cnum | Cname    | City     | Rating | Snum |
+------+----------+----------+--------+------+
| 2001 | Hoffman  | London   |    100 | 1001 |
| 2002 | Giovanni | Rome     |    200 | 1003 |
| 2003 | Liu      | San Jose |    200 | 1002 |
| 2004 | Grass    | Berlin   |    300 | 1002 |
| 2006 | Clemens  | London   |    100 | 1001 |
| 2008 | Cisneros | San Jose |    300 | 1007 |
| 2007 | Pereira  | Rome     |    100 | 1004 |
+------+----------+----------+--------+------+
7 rows in set (0.00 sec)

W3_93086_Harshal>SELECT count(cname) empty_city
    -> FROM customers
    -> WHERE cname IS NOT NULL;
+------------+
| empty_city |
+------------+
|          7 |
+------------+
1 row in set (0.00 sec)

W3_93086_Harshal>
```

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

```
W3_93086_Harshal>SELECT min(amt) "smallest order",
    -> cnum
    -> FROM orders
    -> GROUP BY cnum;
+---------------+------+
| smallest order | 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 (0.00 sec)

W3_93086_Harshal>
```

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

```
W3_93086_Harshal>SELECT *
    -> FROM customers
    -> WHERE cname LIKE 'G%'
    -> ORDER BY cname;
+------+----------+--------+--------+------+
| Cnum | Cname    | City   | Rating | Snum |
+------+----------+--------+--------+------+
| 2002 | Giovanni | Rome   |    200 | 1003 |
| 2004 | Grass    | Berlin |    300 | 1002 |
+------+----------+--------+--------+------+
2 rows in set (0.01 sec)

W3_93086_Harshal>
```

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

```
W3_93086_Harshal>select * from customers;
+-------+----------+----------+--------+------+
| Cnum  | Cname    | City     | Rating | Snum |
+-------+----------+----------+--------+------+
| 2001  | Hoffman  | London   |    100 | 1001 |
| 2002  | Giovanni | Rome     |    200 | 1003 |
| 2003  | Liu      | San Jose |    200 | 1002 |
| 2004  | Grass    | Berlin   |    300 | 1002 |
| 2006  | Clemens  | London   |    100 | 1001 |
| 2008  | Cisneros | San Jose |    300 | 1007 |
| 2007  | Pereira  | Rome     |    100 | 1004 |
+-------+----------+----------+--------+------+
7 rows in set (0.00 sec)

W3_93086_Harshal>select max(ratings) " highest rating " from customers;
ERROR 1054 (42S22): Unknown column 'ratings' in 'field list'
W3_93086_Harshal>Select max(ratings) " Highest Rating " From Customers;
ERROR 1054 (42S22): Unknown column 'ratings' in 'field list'
W3_93086_Harshal>Select max(ratings) "Highest Rating" From Customers;
ERROR 1054 (42S22): Unknown column 'ratings' in 'field list'
W3_93086_Harshal>select * from customers
    -> where max(rating) "Highest Rating";
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual t
hat corresponds to your MySQL server version for the right syntax to use nea
r '"Highest Rating"' at line 2
W3_93086_Harshal>Select max(rating) "Highest Rating" From Customers;
+----------------+
| Highest Rating |
+----------------+
|            300 |
+----------------+
1 row in set (0.00 sec)

W3_93086_Harshal>
```

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.).

```
C:\WINDOWS\system32\cmd.  ×    +  ∨

+------+---------+------------+------+------+
| 3001 |   18.69 | 1990-10-03 | 2008 | 1007 |
| 3003 |  767.19 | 1990-10-03 | 2001 | 1001 |
| 3002 | 1900.10 | 1990-10-03 | 2007 | 1004 |
| 3005 | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 3006 | 1098.16 | 1990-10-03 | 2008 | 1007 |
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 3007 |   75.75 | 1990-10-04 | 2004 | 1002 |
| 3008 | 4723.00 | 1990-10-05 | 2006 | 1001 |
| 3010 | 1309.95 | 1990-10-06 | 2004 | 1002 |
| 3011 | 9891.88 | 1990-10-06 | 2006 | 1001 |
+------+---------+------------+------+------+
10 rows in set (0.00 sec)

W3_93086_Harshal>SELECT count(odate)||' SALES PERSON REGISTREDDON' "TOTAL",
    ->         odate
    -> FROM orders
    -> GROUP BY odate;
+---------------------------------------------------+------------+
| count(odate)||' SALES PERSON REGISTREDDON' "TOTAL" | odate      |
+---------------------------------------------------+------------+
|                                                 1 | 1990-10-03 |
|                                                 1 | 1990-10-04 |
|                                                 1 | 1990-10-05 |
|                                                 1 | 1990-10-06 |
+---------------------------------------------------+------------+
4 rows in set, 1 warning (0.00 sec)

W3_93086_Harshal>SELECT count(odate)||' SALES PERSON REGISTREDDON' "TOTAL",odate From orders Group By odate;
+---------------------------------------------------+------------+
| count(odate)||' SALES PERSON REGISTREDDON' "TOTAL" | odate      |
+---------------------------------------------------+------------+
|                                                 1 | 1990-10-03 |
|                                                 1 | 1990-10-04 |
|                                                 1 | 1990-10-05 |
|                                                 1 | 1990-10-06 |
+---------------------------------------------------+------------+
4 rows in set, 1 warning (0.00 sec)

W3_93086_Harshal>
```