ASSIGNMENT 12

1. Write a query that selects all customers whose ratings are equal to or greater than ANY of Serres'.

```
mysql> SELECT *
    -> FROM customers
    -> WHERE rating >= ANY (
    ->     SELECT rating
    ->     FROM customers
    ->     WHERE city = 'Delhi'
    -> );
+------+-------+-----------+--------+------+
| cnum | cname | city      | rating | snum |
+------+-------+-----------+--------+------+
| 2002 | Brown | Barcelona |    200 | 1003 |
| 2003 | Clark | New York  |    150 | 1004 |
| 2004 | Green | Paris     |    250 | 1001 |
| 2005 | David | Rome      |    300 | 1002 |
| 2006 | Carl  | San Jose  |    180 | 1004 |
| 2007 | Gary  | Madrid    |    220 | 1007 |
| 2008 | Ravi  | Delhi     |    150 | 1001 |
+------+-------+-----------+--------+------+
7 rows in set (0.00 sec)
```

2. Write a query using ANY or ALL that will find all salespeople who have no customers located in their city.

```
mysql> SELECT *
    -> FROM salesperson
    -> WHERE city <> ALL (
    ->     SELECT DISTINCT city
    ->     FROM customers
    -> );
+------+-------+---------+------+
| Snum | Sname | City    | Comm |
+------+-------+---------+------+
| 1006 | Chris | Chicago | 0.13 |
| 1009 | Emma  | Boston  | 0.13 |
+------+-------+---------+------+
2 rows in set (0.00 sec)

mysql> SELECT *
    -> FROM salesperson
    -> WHERE NOT city = ANY (
    ->     SELECT DISTINCT city
    ->     FROM customers
    -> );
+------+-------+---------+------+
| Snum | Sname | City    | Comm |
+------+-------+---------+------+
| 1006 | Chris | Chicago | 0.13 |
| 1009 | Emma  | Boston  | 0.13 |
+------+-------+---------+------+
2 rows in set (0.00 sec)

mysql> SELECT *
    -> FROM salesperson
    -> WHERE city NOT IN (
    ->     SELECT DISTINCT city
    ->     FROM customers
    -> );
+------+-------+---------+------+
| Snum | Sname | City    | Comm |
+------+-------+---------+------+
| 1006 | Chris | Chicago | 0.13 |
| 1009 | Emma  | Boston  | 0.13 |
+------+-------+---------+------+
2 rows in set (0.00 sec)
```

3. Write a query that selects all orders for amounts greater than any for the customers in London.

```
mysql> SELECT *
    -> FROM orders
    -> WHERE amt > (
    ->     SELECT MIN(o.amt)
    ->     FROM orders o
    ->     JOIN customers c ON o.cnum = c.cnum
    ->     WHERE c.city = 'London'
    -> );
+------+---------+------------+------+------+
| onum | amt     | odate      | cnum | snum |
+------+---------+------------+------+------+
| 3002 | 2350.00 | 1990-10-04 | 2002 | 1003 |
| 3005 | 4500.00 | 1990-10-03 | 2005 | 1002 |
| 3006 | 1900.75 | 1990-10-07 | 2006 | 1004 |
+------+---------+------------+------+------+
3 rows in set (0.00 sec)

mysql> SELECT *
    -> FROM orders
    -> WHERE amt > (
    -> SELECT MAX(o.amt)
    ->     FROM orders o
    ->     JOIN customers c ON o.cnum = c.cnum
    ->     WHERE c.city = 'London'
    -> );
+------+---------+------------+------+------+
| onum | amt     | odate      | cnum | snum |
+------+---------+------------+------+------+
| 3002 | 2350.00 | 1990-10-04 | 2002 | 1003 |
| 3005 | 4500.00 | 1990-10-03 | 2005 | 1002 |
| 3006 | 1900.75 | 1990-10-07 | 2006 | 1004 |
+------+---------+------------+------+------+
3 rows in set (0.00 sec)
```