Assignment – 12

Using the operators IN, ANY, and ALL.

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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 cname='Serres');
Empty set (0.02 sec)
```

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

```
mysql> select sname from salespeople
    -> where snum NOT IN (select DISTINCT snum
    -> FROM customers
    -> where city=salespeople.city);
+---------+
| sname   |
+---------+
| Serres  |
| Motika  |
| Rifkin  |
| Axelrod |
| Balanco |
+---------+
5 rows in set (0.01 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 > ANY(
    -> SELECT amt FROM orders
    -> JOIN customers ON  orders.cnum =
    -> customers.cnum
    -> WHERE customers.city='London');
+------+---------+------------+------+------+
| Onum | amt     | Odate      | Cnum | Snum |
+------+---------+------------+------+------+
| 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 |
| 3010 | 1309.95 | 1990-10-06 | 2004 | 1002 |
+------+---------+------------+------+------+
5 rows in set (0.07 sec)
```

4) Write the above query using MIN or MAX.

```
mysql> SELECT * from orders
    -> where amt > (select MAX(amt)
    -> from orders
    -> JOIN customers ON orders.cnum=
    -> customers.cnum
    -> where customers.city='London');
+------+---------+------------+------+------+
| Onum | amt     | Odate      | Cnum | Snum |
+------+---------+------------+------+------+
| 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 |
| 3010 | 1309.95 | 1990-10-06 | 2004 | 1002 |
+------+---------+------------+------+------+
5 rows in set (0.01 sec)
```

```
mysql> SELECT * from orders
    -> where amt > (select MIN(amt)
    -> from orders
    -> JOIN customers ON orders.cnum=
    -> customers.cnum
    -> where customers.city='London');
+------+---------+------------+------+------+
| Onum | amt     | Odate      | Cnum | Snum |
+------+---------+------------+------+------+
| 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 |
| 3010 | 1309.95 | 1990-10-06 | 2004 | 1002 |
+------+---------+------------+------+------+
5 rows in set (0.00 sec)
```