Assignment – 12

Using the operators IN, ANY, and ALL.

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

```
W2_92894_Ekta>SELECT
    ->      c.cname,
    ->      c.rating
    -> FROM
    ->      customers c
    -> WHERE
    ->      c.rating >= ANY (
    ->          SELECT c2.rating
    ->          FROM customers c2
    ->          JOIN orders o ON c2.cnum = o.cnum
    ->          JOIN salespeople s ON o.snum = s.snum
    ->          WHERE s.sname = 'Serres'
    ->      );
+----------+--------+
| cname    | rating |
+----------+--------+
| Giovanni |    200 |
| Liu      |    200 |
| Grass    |    300 |
| Cisneros |    300 |
+----------+--------+
4 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.

```
W2_92894_Ekta>SELECT
    ->      s.sname,
    ->      s.city
    -> FROM
    ->      salespeople s
    -> WHERE
    ->      s.city <> ALL (
    ->          SELECT c.city
    ->          FROM customers c
    ->          WHERE c.snum = s.snum
    ->      );
+---------+-----------+
| sname   | city      |
+---------+-----------+
| Motika  | London    |
| Rifkin  | Barcelona |
| Axelrod | New York  |
+---------+-----------+
3 rows in set (0.00 sec)
```

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

```
W2_92894_Ekta>SELECT
    ->      o.onum,
    ->      o.amt,
    ->      o.odate,
    ->      o.cnum,
    ->      o.snum
    -> FROM
    ->      orders o
    -> WHERE
    ->      o.amt > ANY (
    ->          SELECT o2.amt
    ->          FROM orders o2
    ->          JOIN customers c ON o2.cnum = c.cnum
    ->          WHERE c.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  |
| 3008  | 4723.00 | 1990-10-05 | 2006  | 1001  |
| 3010  | 1309.95 | 1990-10-06 | 2004  | 1002  |
| 3011  | 9891.88 | 1990-10-06 | 2006  | 1001  |
+-------+---------+------------+-------+-------+
7 rows in set (0.00 sec)
```

4) Write the above query using MIN or MAX

```
W2_92894_Ekta>SELECT
    ->      o.onum,
    ->      o.amt,
    ->      o.odate,
    ->      o.cnum,
    ->      o.snum
    -> FROM
    ->      orders o
    -> WHERE
    ->      o.amt > (
    ->          SELECT MIN(o2.amt)
    ->          FROM orders o2
    ->          JOIN customers c ON o2.cnum = c.cnum
    ->          WHERE c.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  |
| 3008  | 4723.00 | 1990-10-05 | 2006  | 1001  |
| 3010  | 1309.95 | 1990-10-06 | 2004  | 1002  |
| 3011  | 9891.88 | 1990-10-06 | 2006  | 1001  |
+-------+---------+------------+-------+-------+
7 rows in set (0.00 sec)
```