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_93085_Tejal select *from customers
    -> where rating >= any
    -> (select rating from customers
    -> where snum=1002);
+-------+----------+-----------+--------+------+
| Cnum  | Cname    | City      | Rating | Snum |
+-------+----------+-----------+--------+------+
| 2002  | Giovanni | Rome      |    200 | 1003 |
| 2003  | Liu      | San_Jose  |    200 | 1002 |
| 2004  | Grass    | Berlin    |    300 | 1002 |
| 2008  | Cisneros | San_Jose  |    300 | 1007 |
+-------+----------+-----------+--------+------+
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_93085_Tejal select *from salespeople
    -> where city != all
    -> (select city from customers);
+-------+----------+-----------+-------+
| Snum  | Sname    | City      | Comm  |
+-------+----------+-----------+-------+
| 1007  | Rifkin   | Barcelona | 0.15  |
| 1003  | Axelord  | New_York  | 0.10  |
+-------+----------+-----------+-------+
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.

```
W2_93085_Tejal SELECT *
    -> FROM ORDERS
    -> WHERE AMT > ANY (
    ->      SELECT AMT
    ->      FROM ORDERS
    ->      WHERE CNUM IN (
    ->          SELECT CNUM
    ->          FROM CUSTOMERS
    ->          WHERE 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_93085_Tejal SELECT *
    -> FROM ORDERS
    -> WHERE AMT > (
    ->      SELECT MIN(AMT)
    ->      FROM ORDERS
    ->      WHERE CNUM IN (
    ->          SELECT CNUM
    ->          FROM CUSTOMERS
    ->          WHERE 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)
```

```
W2_93085_Tejal SELECT *
    -> FROM ORDERS
    -> WHERE AMT > (
    ->      SELECT MAX(AMT)
    ->      FROM ORDERS
    ->      WHERE CNUM IN (
    ->          SELECT CNUM
    ->          FROM CUSTOMERS
    ->          WHERE CITY = 'London'
    ->      )
    -> );
Empty set (0.00 sec)
```