<u>Assignment – 12</u> Using the operators IN, ANY, and ALL.

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

```
W1_Minal_93084>SELECT *
    -> FROM Customers
       WHERE rating >= ALL (
           SELECT rating
    ->
    ->
           FROM Customers
    ->
           WHERE cname = 'Serres'
    -> );
       l Cname
                   | City
                                 Rating | Snum
  Cnum
         Hoffman
                     London
  2001
                                    100
                                          1001
  2002
         Giovanni
                     Rome
                                    200
                                           1003
  2003
         Liu
                     San Jose
                                          1002
                                    200
  2004
         Grass
                     Berlim
                                    300
                                           1002
  2006
         Clemens
                     London
                                    100
                                          1001
  2008
         Cisneros
                     San Jose
                                    300
                                           1007
  2007
                     Rome
                                    100
                                          1004
7 rows in set (0.01 sec)
```

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

```
W1_Minal_93084>SELECT *
    -> FROM Salespeople s
    -> WHERE s.city <> ALL (
           SELECT c.city
    ->
           FROM Customers c
    ->
    ->
           WHERE c.snum = s.snum
    -> );
                  | City
 Snum | Sname
                                Comm
 1004
         Motika
                   London
                                0.11
 1007
         Rifkin
                    Barcelona
                                0.15
         Axelrod
 1003
                   New York
                                 0.1
3 rows in set (0.00 sec)
```

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

```
W1_Minal_93084>SELECT *
    -> 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
                   0date
                                  Cnum
                                         Snum
          1900.1
                    1990-10-03
  3002
                                  2007
                                         1004
  3005
         5160.45
                                  2003
                    1990-10-03
                                         1002
  3006
         1098.16
                    1990-10-03
                                  2008
                                         1007
  3009
         1713.23
                    1990-10-04
                                  2002
                                         1003
  3008
            4723
                    1990-10-05
                                  2006
                                         1001
  3010
         1309.95
                                  2004
                    1990-10-06
                                         1002
  3011
         9891.88
                    1990-10-06
                                  2006
                                         1001
7 rows in set (0.01 sec)
```

Write the above query using MIN or MAX.

```
W1_Minal_93084>SELECT *
       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'
    ->
    -> );
                   Odate
                                Cnum
                                         Snum
 Onum | Amt
          1900.1
                    1990-10-03
  3002
                                  2007
                                         1004
  3005
         5160.45
                    1990-10-03
                                  2003
                                         1002
 3006
         1098.16
                                  2008
                                         1007
                    1990-10-03
  3009
         1713.23
                    1990-10-04
                                  2002
                                         1003
  3008
            4723
                    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)
```