***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’.

**Ans :**

**mysql> SELECT Cname, Rating**

**-> FROM customers**

**-> WHERE Rating >= ANY (**

**-> SELECT Rating**

**-> FROM customers**

**-> WHERE Snum IN (**

**-> SELECT Snum**

**-> FROM salespeople**

**-> WHERE Sname = 'Serres'**

**-> )**

**-> );**

**+----------+--------+**

**| Cname | Rating |**

**+----------+--------+**

**| Neha | 200 |**

**| Isha | 250 |**

**| Anil | 300 |**

**| Giovanni | 200 |**

**| Liu | 200 |**

**| Grass | 300 |**

**| Cisneros | 300 |**

**+----------+--------+**

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

**Ans :**

**mysql> SELECT Sname, City**

**-> FROM salespeople s**

**-> WHERE City <> ALL (**

**-> SELECT City**

**-> FROM customers c**

**-> WHERE c.Snum = s.Snum**

**-> );**

**+---------+-----------+**

**| Sname | City |**

**+---------+-----------+**

**| Vikram | Pune |**

**| Motika | London |**

**| Rifkin | Barcelona |**

**| Axelrod | New York |**

**| Motika | London |**

**| Rifkin | Barcelona |**

**| Axelrod | New York |**

**+---------+-----------+**

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

**Ans :-**

**mysql> SELECT \***

**-> FROM orders**

**-> WHERE Amt > ANY (**

**-> SELECT o.Amt**

**-> FROM orders o**

**-> JOIN customers c ON o.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 |**

**+------+---------+------------+------+------+**

**ANS OF 4TH ::**

**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 | 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 |**

**+------+---------+------------+------+------+**

1. Write the above query using MIN or MAX.