SQL 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:

```
W1_83926_Vaibhavi>select * from Customers
    -> where Rating >=
    -> (select min(Rating) from Customers where Snum = (select Snum from Salespe
ople where Sname = 'Serres'));
+------+----------+-----------+--------+------+
| 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)
```

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

```
W1_83926_Vaibhavi>select * from Salespeople where city not in (select City from
Customers);
+------+---------+-----------+------+
| Snum | Sname   | City      | Comm |
+------+---------+-----------+------+
| 1007 | Rifikin | Barcelona | 0.15 |
| 1003 | Axelrod | New York  | 0.10 |
+------+---------+-----------+------+
2 rows in set (0.01 sec)
```

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

```
W1_83926_Vaibhavi>select * from Orders
    -> where Amt > any (select Amt from Orders where Cnum =any (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)
```

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4) Write the above query using MIN or MAX.
Ans:

```
W1_83926_Vaibhavi>select * from Orders where Amt = (select min(Amt) from Orders
where Cnum = any (select Cnum from Customers where City = 'London'));
+------+--------+------------+------+------+
| Onum | Amt    | Odate      | Cnum | Snum |
+------+--------+------------+------+------+
| 3003 | 767.19 | 1990-10-03 | 2001 | 1001 |
+------+--------+------------+------+------+
1 row in set (0.00 sec)

W1_83926_Vaibhavi>select * from Orders where Amt = (select max(Amt) from Orders
where Cnum = any (select Cnum from Customers where City = 'London'));
+------+---------+------------+------+------+
| Onum | Amt     | Odate      | Cnum | Snum |
+------+---------+------------+------+------+
| 3011 | 9891.88 | 1990-10-06 | 2006 | 1001 |
+------+---------+------------+------+------+
1 row in set (0.00 sec)
```