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:

```
KD3_86676_Deependra@>select * from customers where Rating >=any(select ratin
g from customers where snum in (select Snum from salespeople where sname='Se
rres'));
+------+----------+-----------+--------+------+
| 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.
Ans:

```
KD3_86676_Deependra@>select * from salespeople where city != All(select city
 from customers);
+------+---------+-----------+------+
| Snum | Sname   | City      | Comm |
+------+---------+-----------+------+
| 1007 | Rifkin  | Barcelona | 0.15 |
| 1003 | Axelrod | 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.

```
KD3_86676_Deependra@>select * from orders where Amt > any (select amt from o
rders where  Cnum in (select cnum from customers where city in ('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.

```
KD3_86676_Deependra@>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)
```