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 :   KD4-89208-Ashish>select * from customers

-> where rating>= any(select rating from customers where snum IN (select

snum from salespeople where sname ='Serres'));

```
KD4-89208-Ashish>select * from customers
    -> where rating>= any(select rating from customers where snum IN (select
 snum from salespeople 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)
```

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

=   KD4-89208-Ashish>select * from salespeople

-> where (city,snum)NOT IN (select city,snum from customers);

```
KD4-89208-Ashish>select * from salespeople
    -> where (city,snum)NOT IN (select city,snum from customers);
+------+---------+-----------+------+
| Snum | Sname   | City      | Comm |
+------+---------+-----------+------+
| 1004 | Motika  | London    | 0.11 |
| 1007 | Rifkin  | Barcelona | 0.15 |
| 1003 | Axelrod | New York  | 0.10 |
+------+---------+-----------+------+
3 rows in set (0.00 sec)
```

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

ANS = KD4-89208-Ashish>select * from orders

   -> where amt >ANY(select amt from orders

   -> where cnum IN(select cnum from customers

   -> where city='London'));

```
KD4-89208-Ashish>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  |  1900.1 | 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 | 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)
```

3) Write the above query using MIN or MAX.

= KD4-89208-Ashish>select * from orders

  -> where amt >ANY(select min(amt) from orders

  -> where cnum IN(select cnum from customers

  -> where city='London'));

```
KD4-89208-Ashish>select * from orders
    ->   where amt >ANY(select min(amt) from orders
    -> where cnum IN(select cnum from customers
    ->   where city='London'));
+-------+---------+------------+------+------+
| Onum  | Amt     | Odate      | Cnum | Snum |
+-------+---------+------------+------+------+
|  3002 |  1900.1 | 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 | 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)
```