

Assignment 12

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

```
KD2-SATYAJEET-86740@>select Cname, Rating from customers where rating in (select c.rating from customers c, salespeople s where c.snum=s.snum and s.sname='Serres');
+-----+-----+
| Cname | Rating |
+-----+-----+
| Giovanni | 200 |
| Liu | 200 |
| Grass | 300 |
| Cisneros | 300 |
+-----+-----+
4 rows in set (0.00 sec)

KD2-SATYAJEET-86740@>|
```

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

```
KD2-SATYAJEET-86740@>select s.sname, s.city as sales_per_city, c.Cname as customer, c.city as customer_city from customers c, salespeople s where c.snum=s.snum and s.city != c.city;
+-----+-----+-----+-----+
| sname | sales_per_city | customer | customer_city |
+-----+-----+-----+-----+
| Axelrod | New York | Giovanni | Rome |
| Serres | San Jose | Grass | Berlin |
| Rifkin | Barcelona | Cisneros | San Jose |
| Motika | London | Pereira | Rome |
+-----+-----+-----+-----+
4 rows in set (0.01 sec)

KD2-SATYAJEET-86740@>|
```

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

Solution 1

```
KD2-SATYAJEET-86740@>select onum, amt from orders where amt > any (select o.amt from customers c, orders o where o.cnum=c.cnum and c.city='London');
+-----+-----+
| onum | amt |
+-----+-----+
| 3002 | 1900.10 |
| 3005 | 5160.45 |
| 3006 | 1098.16 |
| 3009 | 1713.23 |
| 3008 | 4723.00 |
| 3010 | 1309.95 |
| 3011 | 9891.88 |
+-----+-----+
7 rows in set (0.00 sec)
```

Solution 2

```
KD2-SATYAJEET-86740@>select * from orders where amt > any(select snum 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)

KD2-SATYAJEET-86740@>|
```

4. Write the above query using MIN or MAX.

```
KD2-SATYAJEET-86740@>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 | 1900.10 | 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)

KD2-SATYAJEET-86740@>|
```