

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'.

```
mysql> SELECT *
-> FROM Customers
-> WHERE Rating >= ANY (
->     SELECT Rating
->     FROM Customers
->     WHERE Snum = 1002
-> );
```

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 (0.01 sec)

mysql> |
```

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

```
mysql> SELECT *
-> FROM Salespeople S
-> WHERE S.City <> ALL (
->     SELECT C.City
->     FROM Customers C
->     WHERE C.Snum = S.Snum
-> );
```

Snum	Sname	City	Comm
1003	Axelrod	New York	0.10
1004	Motika	London	0.11
1007	Rifkin	Barcelona	0.15

3 rows in set (0.01 sec)

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

```
mysql> SELECT *
-> FROM Orders
-> WHERE Amt > ANY (
->     SELECT 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
3008	4723.00	1990-10-05	2006	1001
3009	1713.23	1990-10-04	2002	1003
3010	1309.95	1990-10-06	2004	1002
3011	9891.88	1990-10-06	2006	1001

7 rows in set (0.00 sec)

```
mysql>
```

4) Write the above query using MIN or MAX.

```
mysql> 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
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7 rows in set (0.00 sec)