

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:**

```
SELECT *
FROM Customers
WHERE rating >= ANY (SELECT rating
FROM Customers
WHERE cname = 'Serres');
```

```
mysql> SELECT *
-> FROM Customers
-> WHERE rating >= ANY (SELECT rating
->                        FROM Customers
->                        WHERE cname = 'Serres');
Empty 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:**

```
SELECT *
FROM Salespeople
WHERE city <> ALL (SELECT city
FROM Customers
WHERE Salespeople.snum = Customers.snum);
```

```
mysql> SELECT *
-> FROM Salespeople
-> WHERE city <> ALL (SELECT city
->                        FROM Customers
->                        WHERE Salespeople.snum = Customers.snum);
+-----+-----+-----+-----+
| 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:**

```
SELECT *  
FROM Orders  
WHERE amount > ANY (SELECT amount  
FROM Orders  
WHERE cnum IN (SELECT cnum  
FROM Customers  
WHERE city = 'London'));
```

```
mysql> SELECT *  
-> FROM Orders  
-> WHERE amount > ANY (SELECT amount  
-> FROM Orders  
-> WHERE cnum IN (SELECT cnum  
-> FROM Customers  
-> WHERE city = 'London'));  
Empty set (0.00 sec)
```

- 4) Write the above query using MIN or MAX.

**Ans:**

```
SELECT *FROM Orders  
WHERE amount > (SELECT MAX(amount)  
FROM Orders  
WHERE cnum IN (SELECT cnum  
FROM Customers  
WHERE city = 'London'));
```

```
mysql> SELECT *  
-> FROM Orders  
-> WHERE amount > (SELECT MAX(amount)  
-> FROM Orders  
-> WHERE cnum IN (SELECT cnum  
-> FROM Customers  
-> WHERE city = 'London'));  
Empty set (0.00 sec)
```

