

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 cname, rating
-> FROM customers
-> WHERE rating >= ANY (
->     SELECT rating
->     FROM customers
->     WHERE cname = 'Serres'
-> );
```

| cname | rating |
|--------|--------|
| Serres | 500 |

1 row 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.

```
mysql> SELECT snum
-> FROM salespeople
-> WHERE snum != ALL (
->     SELECT snum
->     FROM customers
->     WHERE customers.city = salespeople. City
-> );
```

| snum |
|------|
| 1003 |
| 1004 |
| 1007 |

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
->     JOIN customers ON orders.cnum = customers.cnum
->     WHERE customers.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 (0.01 sec)

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

```
mysql> SELECT *
-> FROM orders
-> WHERE amt > (
->     SELECT MAX(amt)
->     FROM orders
->     JOIN customers ON orders.cnum = customers.cnum
->     WHERE customers.City = 'London'
-> );
```

Empty set (0.00 sec)