

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'.

select cname, rating from customers where rating >= any (select rating from customers where cname = 'serres');

```
mysql> select cname, rating from customers where rating >= any (select rating from customers where cname = 'serres');
Empty set (0.01 sec)
```

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

select sname from salespeople s where s.city <> all (select c.city from customers c where s.snum = c.snum);

```
mysql> select sname
-> from salespeople s
-> where s.city <> all (select c.city from customers c where s.snum = c.snum);
+-----+
| sname |
+-----+
| Motika |
| Rifkin |
| Axelrod |
+-----+
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.

select * from orders where amt > any (select o.amt from orders o join customers c on o.cnum = c.cnum where c.city = 'london');

```
mysql> select *
-> from orders
-> where amt > any (select 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 |
| 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)
```

4) Write the above query using MIN or MAX.

```
select *  
from orders  
where amt > (select max(o.amt) from orders o  
             join customers c on o.cnum = c.cnum  
             where c.city = 'london');
```

```
mysql> select *  
-> from orders  
-> where amt > (select max(o.amt) from orders o  
->             join customers c on o.cnum = c.cnum  
->             where c.city = 'london');  
Empty set (0.01 sec)
```