

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 * from customers where rating >=any (select rating from customers where snum in
( select snum from salespeople where sname='serres' ) );
```

```
[mysql> select * from customers where rating >=any (select rating from customers where snum in
-> ( select snum from salespeople where sname='serres' ) );
```

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 (0.00 sec)
```

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

```
select snum from salespeople where (snum,city) not in (select snum,city from customers);
```

```
[mysql> select snum from salespeople where (snum,city) not in (select snum,city from customers);
```

snum
1004
1007
1003

```
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 amt from orders where cnum in (select cnum from customers where city='london'));`

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

4) Write the above query using MIN or MAX.

`select * from orders where amt > (select min(amt) from customers natural JOIN orders where city='london');`

```
[mysql> select * from orders where amt > (select min(amt) from customers natural
-> JOIN orders 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)
```