

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 from customers where rating >= ANY (select rating from customers
where snum =(Select snum from salespeople where sname = "Serres"));
```

```
W1_89793_Saurabh>select cname from customers
-> where rating >= ANY (select rating from customers
-> where snum =(Select snum from salespeople where sname = "Serres"));
+-----+
|  cname  |
+-----+
| Giovanni |
| Liu      |
| Grass    |
| Cisneros |
+-----+
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 sname from salespeople where city != ALL (select city from customers);
```

```
W1_89793_Saurabh>Select sname from salespeople where city != ALL
-> (select city from customers);
+-----+
|  sname  |
+-----+
| Rifkin  |
| Axelrod |
+-----+
2 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 min(amt) from orders where cnum in(select cnum from customers where
city = "London"));
```

```
W1_89793_Saurabh>select * from orders where amt >= ANY(select min(amt) from
orders where cnum in(select cnum from customers where city = "London"));
+-----+-----+-----+-----+-----+
| Onum | Amt      | Odate      | Cnum | Snum |
+-----+-----+-----+-----+-----+
| 3003 | 767.19   | 1990-10-03 | 2001 | 1001 |
| 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 |
+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

4) Write the above query using MIN or MAX.

select * from orders where amt >= ANY(select max(amt) from orders where cnum in(select cnum from customers where city = "London"));

```
w1_89793_Saurabh>select * from orders where amt >= ANY(select max(amt) from
orders where cnum in(select cnum from customers where city = "London"));
+-----+-----+-----+-----+-----+
| Onum | Amt      | Odate      | Cnum | Snum |
+-----+-----+-----+-----+-----+
| 3011 | 9891.88  | 1990-10-06 | 2006 | 1001 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```