

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 snum =
(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

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 s where s.city != ALL(select c.city from customers c where c.snum
= s.snum);
```

SNUM	SNAME	CITY	COMM
1003	Axelrod	New York	0.10
1004	Motika	London	0.11
1007	Rifkin	Barcelona	0.15

3) Write a query that selects all orders for amounts greater than any for the customers in London.

Ans:

```
select * from orders where amt > ANY (select amt from orders where cnum = ANY (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

4) Write the above query using MIN or MAX.

ANS:

```
select * from orders where amt > ALL (select amt from orders where cnum = ANY (select  
cnum from customers where city ='London'));
```

```
select * from orders where amt > ANY (select amt from orders where cnum = ANY (select  
cnum from customers where city ='London'));
```