

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:-

```
KD3_86718_yagywalky@>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 (0.01 sec)
```

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

Ans:-

```
KD3_86718_yagywalky@>select sname, snum from salespeople
-> where city != all(select city from customers);
+-----+-----+
| sname | snum |
+-----+-----+
| Rifkin | 1007 |
| Axelrod | 1003 |
+-----+-----+
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.

Ans :-

```
KD3_86718_yagywalky@>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  | 1090-10-05 | 2006 | 1001 |
| 3010 | 1309.95  | 1090-10-06 | 2004 | 1002 |
| 3011 | 9891.88  | 1090-10-06 | 2006 | 1001 |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

4) Write the above query using MIN or MAX.

Ans:-

```
KD3_86718_yagywalky@>select * from orders
-> where amt > (select min(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  | 1090-10-05 | 2006 | 1001 |
| 3010 | 1309.95  | 1090-10-06 | 2004 | 1002 |
| 3011 | 9891.88  | 1090-10-06 | 2006 | 1001 |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```