

SQL 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'.

```
D6_87105_Pawan@>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 |
+-----+-----+-----+-----+-----+
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.

```
D6_87105_Pawan@>select snum, city from salespeople
-> except
-> select snum, city from customers;
+-----+-----+
| snum | city      |
+-----+-----+
| 1004 | London    |
| 1007 | Barcelona |
| 1003 | New York  |
+-----+-----+
3 rows in set (0.03 sec)
```

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

```
D6_87105_Pawan@>select snum, city from salespeople  
-> where (snum, city) not in  
-> (select snum, city from customers);
```

```
+-----+-----+  
| snum | city      |  
+-----+-----+  
| 1004 | London    |  
| 1007 | Barcelona |  
| 1003 | New York  |  
+-----+-----+  
3 rows in set (0.00 sec)
```

4) Write the above query using MIN or MAX.

```
D6_87105_Pawan@>select * from orders  
-> where amt > any  
-> (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 |  
| 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 |  
+-----+-----+-----+-----+-----+  
6 rows in set (0.01 sec)
```