

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'.

```
KD3_86927_Vivek@>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)

KD3_86927_Vivek@>
```

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

```
KD3_86927_Vivek@>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)

KD3_86927_Vivek@>
```

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

```
KD3_86927_Vivek@>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

```
7 rows in set (0.00 sec)

KD3_86927_Vivek@>
```

- 4) Write the above query using MIN or MAX.

```
KD3_86927_Vivek@>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	1990-10-05	2006	1001
3010	1309.95	1990-10-06	2004	1002
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```
7 rows in set (0.00 sec)

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```