

## SQL Assignment 12

### Using the operators IN, ANY and ALL.

Q.1 Write a query that selects all customers whose ratings are equal to or greater than ANY of Serres.

```
D5_Shaurya_83785>SELECT A.CNAME FROM CUSTOMERS A WHERE A.RATING >=ANY(SELECT RATING FROM CUSTOMERS WHERE SNUM = (SELECT SNUM FROM SALESPeOPLE WHERE SNAME = 'Serres')));
+-----+
| CNAME |
+-----+
| Grass |
| Clisneros |
+-----+
2 rows in set (0.00 sec)
```

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

```
ERROR 1051 (42502): UNKNOWN COLUMN 'SALESPeOPLE'
D5_Shaurya_83785>SELECT SALESPeOPLE.* FROM SALESPeOPLE, CUSTOMERS where SALESPeOPLE.SNUM = CUSTOMERS.SNUM AND SALESPeOPLE.SNAME != all(SELECT SALESPeOPLE.SNAME FROM SALESPeOPLE,CUSTOMERS WHERE SALESPeOPLE.SNUM = CUSTOMERS.SNUM AND SALESPeOPLE.CITY = CUSTOMERS.CITY);
+-----+-----+-----+-----+
| SNUM | SNAME | CITY | COMM |
+-----+-----+-----+-----+
| 1003 | AXELROD | NEW YORK | 0.1 |
| 1007 | RIFKIN | BARCELONA | 0.15 |
| 1004 | MOTIKA | LONDON | 0.11 |
+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

CONTD ON NEXT PAGE.....

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

Using 03 Select statement:

```
D5_Shaurya_83785>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)

Using 02 Select statements and a join:

```
D5_Shaurya_83785>SELECT * FROM ORDERS WHERE Amt >ANY(SELECT Amt FROM ORDERS,CUSTOMERS WHERE ORDERS.CNUM = CUSTOMERS.CNUM AND 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 (0.01 sec)

Q.4 Write the above query using MIN or MAX

```
D5_Shaurya_83785>SELECT * FROM ORDERS WHERE AMT>(SELECT MIN(AMT) FROM ORDERS, CUSTOMERS WHERE CITY = 'LONDON' AND ORDERS.CNUM = CUSTOMERS.CNUM);
```

ONUM	AMT	ODATE	CNUM	SNUM
3002	1900.1	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	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)