Database Technologies – Assignment 2 **KD2-Abhishek-96835**

1. Write a query that produces all rows from the Customers table for which the salesperson's number is 1001.

```
KD2_Abhishek_96835>select * from customers where snum=1001;
+------+---------+--------+--------+------+
| cnum | cname   | city   | rating | snum |
+------+---------+--------+--------+------+
| 2001 | Hoffman | London |    100 | 1001 |
| 2006 | Clemens | London |    100 | 1001 |
+------+---------+--------+--------+------+
2 rows in set (0.06 sec)
```

2. Write a select command that produces the rating followed by the name of each customer in San Jose.

```
KD2_Abhishek_96835>select rating, cname from customers where city='San Jose';
+--------+----------+
| rating | cname    |
+--------+----------+
|    200 | Liu      |
|    300 | Cisneros |
+--------+----------+
2 rows in set (0.01 sec)
```

3. Write a query that will produce the snum values of all salespeople from the Orders table (with the duplicate values suppressed).

```
KD2_Abhishek_96835>select distinct snum from orders;
+------+
| snum |
+------+
| 1007 |
| 1001 |
| 1004 |
| 1002 |
| 1003 |
+------+
5 rows in set (0.03 sec)
```

4. Write a query that will display all the orders for amount more than Rs. 1,000.

```
KD2_Abhishek_96835>select * from orders where amt>1000;
+------+---------+------------+------+------+
| 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 | 1990-10-04 | 2006 | 1001 |
| 3011 | 9891.88 | 1990-10-04 | 2006 | 1001 |
+------+---------+------------+------+------+
6 rows in set (0.01 sec)
```

5. Write a query that will give you the names and cities of all salespeople in London with a commission above 0.10.

```
KD2_Abhishek_96835>select sname,city from salespeople where city='London' and comm>0.10;
+--------+--------+
| sname  | city   |
+--------+--------+
| Peel   | London |
| Motika | London |
+--------+--------+
2 rows in set (0.02 sec)
```

6. Write an SQL query that returns all customers who have a rating greater than 100, along with the customers located in Rome regardless of their rating.

```
KD2_Abhishek_96835>select * from customers where rating>100 or city='Rome';
+------+----------+----------+--------+------+
| 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 |
| 2007 | Pereira  | Rome     |    100 | 1004 |
+------+----------+----------+--------+------+
5 rows in set (0.00 sec)
```

7. What will be the output from the following query? Select * from Orders where (amt < 1000 OR NOT (odate = ‘1990-10- 03’ AND cnum > 2003));

```
KD2_Abhishek_96835>select * from Orders where (amt<1000 OR NOT (odate='1990-10-03' AND cnum>2003));
+------+---------+------------+------+------+
| onum | amt     | odate      | cnum | snum |
+------+---------+------------+------+------+
| 3001 |   18.69 | 1990-10-03 | 2008 | 1007 |
| 3003 |  767.19 | 1990-10-03 | 2001 | 1001 |
| 3005 | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 3007 |   75.75 | 1990-10-04 | 2004 | 1002 |
| 3008 | 4723.00 | 1990-10-04 | 2006 | 1001 |
| 3010 |  309.95 | 1990-10-04 | 2004 | 1002 |
| 3011 | 9891.88 | 1990-10-04 | 2006 | 1001 |
+------+---------+------------+------+------+
8 rows in set (0.01 sec)
```

8. What will be the output of the following query? Select * from Orders where NOT (odate = ‘1990-10-03’ OR snum >1006) AND amt >= 1500;

```
KD2_Abhishek_96835>select * from Orders where NOT (odate='1990-10-03' OR snum>1006) AND amt>=1500;
+------+---------+------------+------+------+
| onum | amt     | odate      | cnum | snum |
+------+---------+------------+------+------+
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 3008 | 4723.00 | 1990-10-04 | 2006 | 1001 |
| 3011 | 9891.88 | 1990-10-04 | 2006 | 1001 |
+------+---------+------------+------+------+
3 rows in set (0.00 sec)
```

9. What is a simpler way to write this query? Select snum, sname, city, comm from Salespeople Where (comm >= .12 AND comm <= .14);

```
KD2_Abhishek_96835>select * from salespeople where comm between 0.12 and 0.13;
+------+--------+----------+------+
| snum | sname  | city     | comm |
+------+--------+----------+------+
| 1001 | Peel   | London   | 0.12 |
| 1002 | Serres | San Jose | 0.13 |
+------+--------+----------+------+
2 rows in set (0.00 sec)
```

10. Write a query that selects all orders except those with amount less than 100.

```
KD2_Abhishek_96835>select * from Orders where not amt<100;
+------+---------+------------+------+------+
| onum | amt     | odate      | cnum | snum |
+------+---------+------------+------+------+
| 3003 |  767.19 | 1990-10-03 | 2001 | 1001 |
| 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 | 1990-10-04 | 2006 | 1001 |
| 3010 |  309.95 | 1990-10-04 | 2004 | 1002 |
| 3011 | 9891.88 | 1990-10-04 | 2006 | 1001 |
+------+---------+------------+------+------+
8 rows in set (0.00 sec)
```