

Assignment –5 Relational and Logical Operators.

1) Write a query that will give you all orders for more than Rs. 1,000.

```
Command Prompt - mysql -u KD2-87199-PRATHAMESH -p
KD2-87199-PRATHAMESH@>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 | 1990-10-05 | 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)

KD2-87199-PRATHAMESH@>
```

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2) Write a query that will give you the names and cities of all salespeople in London with a commission above .10.

See below

```
Command Prompt - mysql -u KD2-87199-PRATHAMESH -p

+-----+-----+
| Peel | London |
| Serres | San Jose |
| Motika | London |
| Rifkin | Barcelona |
+-----+-----+
4 rows in set (0.00 sec)

KD2-87199-PRATHAMESH@>SELECT SNAME, CITY FROM SALESPEOPLE WHERE COMM>.10 AND CITY='LONDON';
+-----+-----+
| SNAME | CITY |
+-----+-----+
| Peel | London |
| Motika | London |
+-----+-----+
2 rows in set (0.00 sec)

KD2-87199-PRATHAMESH@>
```

3) Write a query on the Customers table whose output will exclude all customers with a rating <= 100, unless they are located in Rome.

```
Command Prompt - mysql -u KD2-87199-PRATHAMESH -p

KD2-87199-PRATHAMESH@>SELECT * FROM CUSTOMERS WHERE RATING>100 AND CITY='Rome';
+-----+-----+-----+-----+-----+
| Cnum | Cname | City | Rating | Snum |
+-----+-----+-----+-----+-----+
| 2002 | Giovanni | Rome | 200 | 1003 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

KD2-87199-PRATHAMESH@>
```

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

```
Command Prompt - mysql -u KD2-87199-PRATHAMESH -p
KD2-87199-PRATHAMESH@>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 | 1990-10-05 | 2006 | 1001 |
| 3010 | 1309.95 | 1990-10-06 | 2004 | 1002 |
| 3011 | 9891.88 | 1990-10-06 | 2006 | 1001 |
+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)

KD2-87199-PRATHAMESH@>
```

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

See below

```
Command Prompt - mysql -u KD2-87199-PRATHAMESH -p
KD2-87199-PRATHAMESH@>select * from orders where not ((odate='1990-10-03' or snum>1006) and amt>=1500);
+-----+-----+-----+-----+-----+
| Onum | Amt   | Odate   | Cnum | Snum |
+-----+-----+-----+-----+-----+
| 3001 | 18.69 | 1990-10-03 | 2008 | 1007 |
| 3003 | 767.19 | 1990-10-03 | 2001 | 1001 |
| 3006 | 1098.16 | 1990-10-03 | 2008 | 1007 |
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 3007 | 75.75 | 1990-10-04 | 2004 | 1002 |
| 3008 | 4723.00 | 1990-10-05 | 2006 | 1001 |
| 3010 | 1309.95 | 1990-10-06 | 2004 | 1002 |
| 3011 | 9891.88 | 1990-10-06 | 2006 | 1001 |
+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

KD2-87199-PRATHAMESH@>
```

6) What is a simpler way to write this query? Select snum, sname, city, comm From Salespeople where (comm > .12 OR comm <.14);

Command Prompt - mysql -u KD2-87199-PRATHAMESH -p

KD2-87199-PRATHAMESH@>Select snum, sname, city, comm From Salespeople;

snum	sname	city	comm
1001	Peel	London	0.12
1002	Serres	San Jose	0.13
1004	Motika	London	0.11
1007	Rifkin	Barcelona	0.15
1003	Axelrod	New York	0.10

5 rows in set (0.00 sec)

KD2-87199-PRATHAMESH@>

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