

## Assignment –5

### Relational and Logical Operators.

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

select \*from orders

-> where amt>1000;

```
Database changed
[KD2-86650-Shivali@>show tables;
+-----+
| Tables_in_classwork |
+-----+
| CUSTOMERS           |
| EMP                 |
| NEWEMP              |
| ORDERS              |
| SALESPeOPLE         |
| STUDENTS            |
+-----+
6 rows in set (0.00 sec)

[KD2-86650-Shivali@>use table orrders;
ERROR 1049 (42000): Unknown database 'table'
[KD2-86650-Shivali@>select *from orders;
+-----+-----+-----+-----+-----+
| Onum | Amt   | Odate   | Cnum | Snum |
+-----+-----+-----+-----+-----+
| 3001 | 18.69 | 1990-10-03 | 2008 | 1007 |
| 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 |
| 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 |
+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)

[KD2-86650-Shivali@>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)

KD2-86650-Shivali@>
```

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

select Sname,City Comm from Salespeople  
where City='London'and Comm>0.10;

```
[KD2-86650-Shivali@>select *from salespeople;
+-----+-----+-----+-----+
| Snum | Sname | City | Comm |
+-----+-----+-----+-----+
| 1001 | Peel | London | 0.12 |
| 1002 | Serres | San Jose | 0.13 |
| 1004 | Motika | London | 0.11 |
| 1007 | Rifin | Barcelona | 0.15 |
| 1003 | Axelrod | New York | 0.1 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

[KD2-86650-Shivali@>select sname,city comm
-> where city='London'and comm>0.10;
ERROR 1054 (42S22): Unknown column 'sname' in 'field list'
[KD2-86650-Shivali@>select Sname,City Comm where City='London'and Comm>0.10;
ERROR 1054 (42S22): Unknown column 'Sname' in 'field list'
[KD2-86650-Shivali@>select Sname,City Comm from Salespeople where City='London'and Comm>
+-----+-----+
| Sname | Comm |
+-----+-----+
| Peel | London |
| Motika | London |
+-----+-----+
2 rows in set (0.00 sec)

KD2-86650-Shivali@>f
```

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

```
[KD2-86650-Shivali@>select *from customers where city='Rome'or rating>100;
+-----+-----+-----+-----+-----+
| 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)

KD2-86650-Shivali@>
```

#### 4) Select \* from Orders

where (amt < 1000 or NOT (odate = '1990-10-03' AND cnum > 2003));

```
KD2-86650-Shivali@>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 (0.00 sec)]
```

#### 5)Select \* from Orders

where NOT ((odate = '1990-10-03' OR snum>1006) AND 1

```
KD2-86650-Shivali@>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)

```
[KD2-86650-Shivali@>
```

6)What is a simpler way to write this query?

Select snum, sname, city, comm From Salespeople  
where (comm > .12 OR comm <.14)

```
[KD2-86650-Shivali@>select snum, sname, city, comm from salespeople where (comm>0.12 Or comm<0.14);
```

snum	sname	city	comm
1001	Peel	London	0.12
1002	Serres	San Jose	0.13
1004	Motika	London	0.11
1007	Rifin	Barcelona	0.15
1003	Axelrod	New York	0.1

5 rows in set (0.00 sec)