

## Assignment –5

### Relational and Logical Operators.

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

Ans:

```
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 |
+-----+-----+-----+-----+
```

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

Ans:

```
select sname,city from salespeople where city = 'London' and comm > 0.10;
+-----+-----+
| sname | city |
+-----+-----+
| Peel  | London |
| Motika | London |
+-----+-----+
```

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

Ans:

```
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 |
+-----+-----+-----+-----+-----+
```

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));

Ans:

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

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);

Ans:

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

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

Ans:

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

