

Assignment -5

Relational and Logical Operators.

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

```
W2_93165_Shivakanya> select * from Orders
-> where Amt>1000;
```

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)

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

```
W2_93165_Shivakanya> SELECT sname, city
-> FROM salespeople
-> WHERE city = 'London' AND comm > 0.10;
```

sname	city
Peel	London
Motika	London

2 rows in set (0.01 sec)

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

```
W2_93165_Shivakanya> select *
-> from Customers
-> where Rating<=100 OR City='Rome';
```

Cnum	Cname	City	Rating	Snum
2001	Hoffman	London	100	1001
2002	Giovanni	Rome	200	1003
2006	Clemens	London	100	1001
2007	Pereira	Rome	100	1004

4 rows in set (0.00 sec)

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));
```

```
W2_93165_Shivakanya> 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	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)

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);
```

```
W2_93165_Shivakanya> 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	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 (0.45 sec)

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

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

```
W2_93165_Shivakanya> 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	Rifkin	Barcelona	0.15
1003	Axelrod	New York	0.1

5 rows in set (0.01 sec)

Simpler way:

```
W2_93165_Shivakanya> select * 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	0.1

5 rows in set (0.00 sec)