

Assignment –5 Relational and Logical Operators.

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

```
W2_93085_Tejal 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 (0.01 sec)
```

```
W2_93085_Tejal 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)
```

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

```
W2_93085_Tejas select *from salespeople;
```

Snum	Sname	City	Comm
1001	Peel	London	0.12
1001	Peel	London	0.12
1002	Serres	San_Jose	0.13
1004	Motika	London	0.11
1007	Rifkin	Barcelona	0.15
1003	Axelord	New_York	0.10

6 rows in set (0.00 sec)

```
W2_93085_Tejas select sname,city from salespeople  
-> where city='london' and comm > 0.10;
```

sname	city
Peel	London
Peel	London
Motika	London

3 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_93085_Tejal select *from customers;
```

Cnum	Cname	City	Rating	Snum
2001	Hoffman	London	100	1001
2002	Giovanni	Rome	200	1003
2003	Liu	San_Jose	200	1002
2004	Grass	Berlin	300	1002
2006	Clemens	London	100	1001
2008	Cisneros	San_Jose	300	1007
2007	Pereira	Rome	100	1004

7 rows in set (0.00 sec)


```
W2_93085_Tejal 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)

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_93085_Tejalselect *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)
```

```
W2_93085_Tejal 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) 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_93085_Tejal 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)

W2_93085_Tejal 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)
```

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

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

```
W2_93085_Tejas Select snum, sname, city, comm From Salespeople  
-> where (comm > .12 OR comm <.14);
```

snum	sname	city	comm
1001	Peel	London	0.12
1001	Peel	London	0.12
1002	Serres	San_Jose	0.13
1004	Motika	London	0.11
1007	Rifkin	Barcelona	0.15
1003	Axelord	New_York	0.10

6 rows in set (0.00 sec)

```
W2_93085_Tejas select *from salespeople  
-> where comm between 0.10 and 0.16;
```

Snum	Sname	City	Comm
1001	Peel	London	0.12
1001	Peel	London	0.12
1002	Serres	San_Jose	0.13
1004	Motika	London	0.11
1007	Rifkin	Barcelona	0.15
1003	Axelord	New_York	0.10

6 rows in set (0.00 sec)

