

SQL 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;

```
amit@amit-Lenovo-ideapad-510-15IKB: ~  
D5_Amit_84097>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)  
  
D5_Amit_84097>
```

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 > .10;

```
amit@amit-Lenovo-ideapad-510-15IKB: ~  
D5_Amit_84097>select Sname,City from SALESPeOPLE  
-> where City = 'London' and Comm > .10;  
+-----+-----+  
| Sname | City |  
+-----+-----+  
| Peel  | London |  
| Motika | London |  
+-----+-----+  
2 rows in set (0.00 sec)  
  
D5_Amit_84097>
```

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 (Rating<=100 and City='Rome');

```
amit@amit-Lenovo-ideapad-510-15IKB: ~
D5_Amit_84097>select * from CUSTOMERS
-> where Rating>100 or (Rating<=100 and 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 (0.01 sec)

D5_Amit_84097>
```

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-:

```
D5_Amit_84097>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)

D5_Amit_84097>
```

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-:

```
amit@amit-Lenovo-ideapad-510-15IKB: ~
D5_Amit_84097>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)

D5_Amit_84097>
```

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

Select snum, sname, city, comm From Salespeople

where (comm > .12 OR comm <.14);

Ans-: select * from SALESPEOPLE

where Comm between 0.12 and 0.14;

```
amit@amit-Lenovo-ideapad-510-15IKB: ~
D5_Amit_84097>select * from SALESPEOPLE
-> where Comm between 0.12 and 0.14;
+-----+-----+-----+-----+
| Snum | Sname | City   | Comm |
+-----+-----+-----+-----+
| 1002 | Serres | San Jose | 0.13 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

D5_Amit_84097>
```