

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;`

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;`

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';`

④ What will be the output from the following query?
SELECT * FROM orders
WHERE (amt < 1000 OR NOT (ordate = '1990-10-03'
OR Snum > 1006) AND amt >= 1500);

Ans-
SELECT * FROM orders
WHERE (amt < 1000 OR NOT

The Given Query will return

- ① Orders where amount is less than 1000
- ② OR Orders where it is not true that the order date is '1990-10-03' and customer number is greater than 2003

So, I will get:

Orders < 1000

Orders that are either not on '1990-10-03' or whose Cnum ≤ 2003

⑤ What will be the output of the following query?
SELECT * FROM orders
WHERE NOT ((ordate = '1990-10-03' OR Snum > 1006) AND amt >= 1500);

Ans- The Given Query will return-

- ① The inner condition Select orders:
on '1990-10-03' or by sales people with Snum > 1006
And with Amt >= 1500

The NOT negates that, so the query returns:
Orders NOT on '1990-10-03' and by Snum ≤ 1006
or Orders where Amt < 1500

⑥ What is a simpler way to write this query?
Select Snum, Sname, City, Comm from Salespeople
whose (Comm > 12 OR Comm < 14);

Ans- The simpler way to write this query is

```
SELECT Snum, Sname, City, Comm FROM Salespeople  
WHERE Comm BETWEEN 0.12 AND 0.14;
```