***Assignment –5* Relational and Logical Operators.**

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

SELECT \*

FROM orders

WHERE Amt > 1000;

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

select sname,city

from salespeople

where city='London' and comm>0.10;

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

select \*from customers where rating> 100 OR (rating <=100 and city='rome');

1. What will be the output from the following query?

Select \* from Orders

where (amt < 1000 OR

NOT (odate = ‘1990-10-03’ AND cnum > 2003));

 **amt < 1000**: Selects rows where the order amount is less than 1000

 **NOT (odate = '1990-10-03' AND cnum > 2003)**: Excludes rows where the order date is '1990-10-03' and the customer number (cnum) is greater than 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 |
| 3007 | 75.75 | 1990-10-04 | 2004 | 1002 |
| 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 |

1. What will be the output of the following query?

Select \* from Orders

where NOT ((odate = ‘1990-10-03’ OR snum

>1006) AND amt >= 1500);

 **(odate = '1990-10-03' OR snum > 1006)**: This part selects rows where either the order date is '1990-10-03' or the salesperson number (snum) is greater than 1006.

 **amt >= 1500**: This condition selects orders with an amount greater than or equal to 1500.

 **NOT**: This negates the combined conditions.

| **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 |

1. What is a simpler way to write this query?

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

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

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