**Assignment –5**

**Relational and Logical Operators.**

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

Solution – select \* from orders where amt>1000;

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

Solution - select sname, city from salespeople where city = 'london' and comm > .10;

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

Solution – select \* from customers where rating <= 100 and city = ‘rome’;

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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));

Solution –

+------+---------+------------+------+------+

| 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 |

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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);

Solution -

+------+---------+------------+------+------+

| 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 |

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

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

Solution –

select \* from salespeople where (comm > .12 or comm < .14);

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