**W3resource**

**Using Boolean and Relational operators**

**1.** From the following table, write a SQL query to locate the details of customers with grade values above 100. Return customer\_id, cust\_name, city, grade, and salesman\_id.

**Solution:** select \* from customer where grade>100

**2.** From the following table, write a SQL query to find all the customers in ‘New York’ city who have a grade value above 100. Return customer\_id, cust\_name, city, grade, and salesman\_id.

**Solution:** select \* from customer where grade>100 and city='New York';

**3.** From the following table, write a SQL query to find customers who are from the city of New York or have a grade of over 100. Return customer\_id, cust\_name, city, grade, and salesman\_id.

**Solution:** select \* from customer where city='New York' or grade>100

**4.** From the following table, write a SQL query to find customers who are either from the city 'New York' or who do not have a grade greater than 100. Return customer\_id, cust\_name, city, grade, and salesman\_id.

**Solution:** select \* from customer where city='New York' or not grade>100

**5.** From the following table, write a SQL query to identify customers who do not belong to the city of 'New York' or have a grade value that exceeds 100. Return customer\_id, cust\_name, city, grade, and salesman\_id.

**Solution:** select \* from customer where not (city='New York' or grade>100);

**6.**From the following table, write a SQL query to find details of all orders excluding those with ord\_date equal to '2012-09-10' and salesman\_id higher than 5005 or purch\_amt greater than 1000.Return ord\_no, purch\_amt, ord\_date, customer\_id and salesman\_id.

**Solution:** select \* from orders where not((ord\_date='2012-09-10' and salesman\_id>5005) or purch\_amt>1000)

**7.** From the following table, write a SQL query to find the details of those salespeople whose commissions range from 0.10 to0.12. Return salesman\_id, name, city, and commission.

**Solution:** select \* from salesman where commission>0.10 and commission<0.12;

**8.** From the following table, write a SQL query to find details of all orders with a purchase amount less than 200 or exclude orders with an order date greater than or equal to '2012-02-10' and a customer ID less than 3009. Return ord\_no, purch\_amt, ord\_date, customer\_id and salesman\_id

**Solution:** select \* from orders where (purch\_amt<200 or not(ord\_date>='2012-02-10' and customer\_id<3009));

**9.**From the following table, write a SQL query to find all orders that meet the following conditions. Exclude combinations of order date equal to '2012-08-17' or customer ID greater than 3005 and purchase amount less than 1000.

**Solution:** select \* from orders where not((ord\_date='2012-08-17' or customer\_id>3005) and purch\_amt<1000);

**10.** Write a SQL query that displays order number, purchase amount, and the achieved and unachieved percentage (%) for those orders that exceed 50% of the target value of 6000.

**Solution:** SELECT ord\_no,purch\_amt,(purch\_amt/6000)\*100 as "achived%",((6000-purch\_amt)/6000)\*100 as "unachived%" from orders where (purch\_amt/6000)\*100>50;

**11.** From the following table, write a SQL query to find the details of all employees whose last name is ‘Dosni’ or ‘Mardy’. Return emp\_idno, emp\_fname, emp\_lname, and emp\_dept.

**Solution:** select \* from emp\_details where emp\_lname='Dosni' or emp\_lname='Mardy';

**12.** From the following table, write a SQL query to find the employees who work at depart 47 or 63. Return emp\_idno, emp\_fname, emp\_lname, and emp\_dept.

**Solution:** select \* from emp\_details where emp\_dept=47 or emp\_dept=63;