Assignment –6

Using Special Operators in Conditions.

1) **Write two different queries that would produce all orders taken on October 3rd or 4th, 1990.**

ANS:

a) Using IN operator

```
mysql> select*
    -> from orders
    -> where Odate IN ('1990-10-03', '1990-10-04');
+-------+---------+------------+------+------+
| Onum  | Amt     | Odate      | Cnum | Snum |
+-------+---------+------------+------+------+
| 3001  |   18.69 | 1990-10-03 | 2008 | 1007 |
| 3002  | 1900.10 | 1990-10-03 | 2007 | 1004 |
| 3003  |  767.19 | 1990-10-03 | 2001 | 1001 |
| 3005  | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 3006  | 1098.16 | 1990-10-03 | 2008 | 1007 |
| 3007  |   75.75 | 1990-10-04 | 2004 | 1002 |
| 3009  | 1713.23 | 1990-10-04 | 2002 | 1003 |
+-------+---------+------------+------+------+
7 rows in set (0.00 sec)
```

b) Using BETWEEN operator

```
mysql> select*
    -> from orders
    -> where Odate IN ('1990-10-03', '1990-10-04');
+-------+---------+------------+------+------+
| Onum  | Amt     | Odate      | Cnum | Snum |
+-------+---------+------------+------+------+
| 3001  |   18.69 | 1990-10-03 | 2008 | 1007 |
| 3002  | 1900.10 | 1990-10-03 | 2007 | 1004 |
| 3003  |  767.19 | 1990-10-03 | 2001 | 1001 |
| 3005  | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 3006  | 1098.16 | 1990-10-03 | 2008 | 1007 |
| 3007  |   75.75 | 1990-10-04 | 2004 | 1002 |
| 3009  | 1713.23 | 1990-10-04 | 2002 | 1003 |
+-------+---------+------------+------+------+
7 rows in set (0.00 sec)

mysql>
```

2) Write a query that selects all of the customers serviced by Peel or Motika.

(Hint: the snum field relates the two tables to one another).

```
mysql> SELECT customers.*
    -> FROM customers
    -> JOIN salespeople ON customers.snum = salespeople.snum
    -> WHERE salespeople.sname IN ('Peel', 'Motika');
+-------+----------+---------+----------+-------+
| Cnum  | Cname    | City    | Rating   | Snum  |
+-------+----------+---------+----------+-------+
| 2001  | Hoffman  | London  |     100  | 1001  |
| 2006  | Clemens  | London  |     100  | 1001  |
| 2007  | Pereira  | Rome    |     100  | 1004  |
+-------+----------+---------+----------+-------+
3 rows in set (0.01 sec)
```

3) Write a query that will produce all the customers whose names begin with a letter from 'A' to 'G'.

```
mysql> SELECT *
    -> FROM customers
    -> WHERE cname LIKE 'A%' OR cname LIKE 'B%' OR cname LIKE 'C%'
    ->    OR cname LIKE 'D%' OR cname LIKE 'E%' OR cname LIKE 'F%'
    ->    OR cname LIKE 'G%';
+-------+----------+-----------+----------+-------+
| Cnum  | Cname    | City      | Rating   | Snum  |
+-------+----------+-----------+----------+-------+
| 2002  | Giovanni | Rome      |     200  | 1003  |
| 2004  | Grass    | Berlin    |     300  | 1002  |
| 2006  | Clemens  | London    |     100  | 1001  |
| 2008  | Cisneros | San Jose  |     300  | 1007  |
+-------+----------+-----------+----------+-------+
4 rows in set (0.00 sec)
```

4) Write a query that selects all customers whose names begin with the letter 'C'.

```
mysql> select* from customers
    -> where cname like 'C%';
+-------+----------+----------+--------+------+
| Cnum  | Cname    | City     | Rating | Snum |
+-------+----------+----------+--------+------+
| 2006  | Clemens  | London   |    100 | 1001 |
| 2008  | Cisneros | San Jose |    300 | 1007 |
+-------+----------+----------+--------+------+
2 rows in set (0.00 sec)
```

5) Write a query that selects all orders except those with zeroes or NULLs in the amt field.

```
mysql> select * from orders
    -> where amt <> 0 AND amt IS NOT Null;
+------+---------+------------+------+------+
| Onum | Amt     | Odate      | Cnum | Snum |
+------+---------+------------+------+------+
| 3001 |   18.69 | 1990-10-03 | 2008 | 1007 |
| 3002 | 1900.10 | 1990-10-03 | 2007 | 1004 |
| 3003 |  767.19 | 1990-10-03 | 2001 | 1001 |
| 3005 | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 3006 | 1098.16 | 1990-10-03 | 2008 | 1007 |
| 3007 |   75.75 | 1990-10-04 | 2004 | 1002 |
| 3008 | 4723.00 | 1990-10-05 | 2006 | 1001 |
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 3010 | 1309.95 | 1990-10-06 | 2004 | 1002 |
| 3011 | 9891.88 | 1990-10-06 | 2006 | 1001 |
+------+---------+------------+------+------+
10 rows in set (0.00 sec)
```