

Assignment –6

Using Special Operators in Conditions.

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

```
mysql>
mysql> select * from orders where Odate between '1990-10-03' and '1990-10-04';
+-----+-----+-----+-----+-----+
| Onum | Amt   | Odate   | Cnum | Snum |
+-----+-----+-----+-----+-----+
| 3001 | 18.69 | 1990-10-03 | 2008 | 1007 |
| 3003 | 767.19 | 1990-10-03 | 2001 | 1001 |
| 3002 | 1900.1 | 1990-10-03 | 2007 | 1004 |
| 3005 | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 3006 | 1098.16 | 1990-10-03 | 2008 | 1007 |
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 3007 | 75.75 | 1990-10-04 | 2004 | 1002 |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

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 |
| 3003 | 767.19 | 1990-10-03 | 2001 | 1001 |
| 3002 | 1900.1 | 1990-10-03 | 2007 | 1004 |
| 3005 | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 3006 | 1098.16 | 1990-10-03 | 2008 | 1007 |
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 3007 | 75.75 | 1990-10-04 | 2004 | 1002 |
+-----+-----+-----+-----+-----+
```

Ans:

```
mysql> select * from orders where Odate in( '1990-10-03', '1990-10-04');
```

Or,

```
mysql> select * from orders where Odate between '1990-10-03' and '1990-10-04';
```

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 * from customers;
```

| Cnum | Cname | City | Rating | Snum |
|------|----------|----------|--------|------|
| 2001 | Hoffman | London | 100 | 1001 |
| 2006 | Clemens | London | 100 | 1001 |
| 2002 | Giovanni | Rome | 200 | 1003 |
| 2003 | Liu | San Jose | 200 | 1002 |
| 2004 | Grass | Berlin | 300 | 1002 |
| 2008 | Cisneros | San Jose | 300 | 1007 |
| 2007 | Pereira | Rome | 100 | 1004 |

```
7 rows in set (0.00 sec)
```

```
mysql> select * from salespeople;
```

| Snum | Sname | City | Comm |
|------|---------|-----------|------|
| 1001 | Peel | London | 0.12 |
| 1003 | Axelrod | New York | 0.1 |
| 1002 | Serres | San Jose | 0.13 |
| 1004 | Motika | London | 0.11 |
| 1007 | Rifkin | Barcelona | 0.15 |

```
ERROR 1146 (42502): Table 'assignment1.customer' doesn't exist
mysql> SELECT c.*
```

```
    -> FROM customers c
```

```
    -> JOIN salespeople s ON c.snum = s.snum
```

```
    -> WHERE s.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) Write a query that will produce all the customers whose names begin with a letter from 'A' to 'G'.

Ans:

```
mysql> SELECT * from customers
-> WHERE cname >= 'A' AND cname < 'H';
```

```
mysql> SELECT * from customers
-> WHERE cname >= 'A' AND cname < 'H';
+-----+-----+-----+-----+-----+
| Cnum | Cname   | City    | Rating | Snum |
+-----+-----+-----+-----+-----+
| 2006 | Clemens | London  | 100    | 1001 |
| 2002 | Giovanni | Rome    | 200    | 1003 |
| 2004 | Grass   | Berlin  | 300    | 1002 |
| 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'.

Ans:

```
mysql> SELECT * from customers
-> where cname like '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.

Ans:

```
mysql> SELECT *
-> FROM orders
-> WHERE amt IS NOT NULL
-> AND amt <> 0;
```

| Onum | Amt | Odate | Cnum | Snum |
|------|---------|------------|------|------|
| 3001 | 18.69 | 1990-10-03 | 2008 | 1007 |
| 3003 | 767.19 | 1990-10-03 | 2001 | 1001 |
| 3011 | 9891.88 | 1990-10-06 | 2006 | 1001 |
| 3002 | 1900.1 | 1990-10-03 | 2007 | 1004 |
| 3005 | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 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 | 1990-10-05 | 2006 | 1001 |
| 3010 | 1309.95 | 1990-10-06 | 2004 | 1002 |

10 rows in set (0.00 sec)

Or

```
mysql> SELECT * from orders
-> WHERE amt IS NOT NULL
-> AND amt != 0;
```

| Onum | Amt | Odate | Cnum | Snum |
|------|---------|------------|------|------|
| 3001 | 18.69 | 1990-10-03 | 2008 | 1007 |
| 3003 | 767.19 | 1990-10-03 | 2001 | 1001 |
| 3011 | 9891.88 | 1990-10-06 | 2006 | 1001 |
| 3002 | 1900.1 | 1990-10-03 | 2007 | 1004 |
| 3005 | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 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 | 1990-10-05 | 2006 | 1001 |
| 3010 | 1309.95 | 1990-10-06 | 2004 | 1002 |

10 rows in set (0.00 sec)