Solution LAB#4

Inserting data from other existing table: -

1.

```
mysql> create table customer1 as select Customer_ID, Store_ID, First_Name, Last_name from customer where customer_ID<11;
Query OK, 10 rows affected (0.47 sec)
```

2.

```
mysql> select * from customer1;
  Customer_ID | Store_ID | First_Name | Last_name
                              MARY
                                              SMITH
                              PATRICIA
                                              JOHNSON
                              LINDA
                                             WILLIAMS
             4
                              BARBARA
                                              JONES
                               ELIZABETH
                                              BROWN
                               JENNIFER
                                             DAVIS
             7
                          2
                              MARIA
                                             MILLER
                              SUSAN
             8
                                             WILSON
             9
                               MARGARET
                                             MOORE
            10
                          2
                              DOROTHY
                                              TAYLOR
10 rows in set (0.00 sec)
mysql> desc customer1;
                                            Null | Key | Default | Extra
  Field
                  Type
                 smallint(5) unsigned
tinyint(3) unsigned
varchar(45)
varchar(45)
  Customer_ID
                                            NO
                                                           0
  Store_ID
                                            NO
                                                           NULL
  First_Name
                                            NO
                                                           NULL
  Last_name
                                            NO
                                                           NULL
```

3.

4.

```
mysql> update customer1 set store_ID = case store_id
   -> when 1 then 2
   -> when 2 then 1
   -> else store_id
   -> end;
Query OK, 10 rows affected (0.10 sec)
```

Concatenate two or more columns:-

```
mysql> create table customer2 as select customer_id, concat(first_name, " ", Last_name)
-> as name from customer1;
Query OK, 10 rows affected (0.39 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

Split columns:-

```
mysql> select customer_id, substring_index(name, " ", 1) as first_name, substring_index
(name, " ", -1) as last_name from customer2;
+------
| customer_id | first_name | last_name |
+------
```

Few important functions used in Mysql or in other tools:-

1. **Revesre-** Print all names in reverse order in customer2 table.

```
mysql> select customer_id, reverse(name) as Reverse_name from customer2;
+------+
| customer_id | Reverse_name |
```

2. **Replace-** Replace all M with R in name column in customer2 table.

3. **Length**- Display the length of every name in customer2 table.

4. **Repeat**-Repeat every name 2 times in customer2 table.

5. Date functions:-

Print todays date

```
mysql> select curdate();
+-----
| curdate() |
+-----
```

Print current time

```
mysql> select curtime();
+------
| curtime() |
```

Print the day of month of any date

```
mysql> SELECT DAYOFMONTH('1998-02-09');
+------
| DAYOFMONTH('1998-02-09') |
+------
| 9 |
```

Print the day of week of any date

```
mysql> SELECT DAYOFWEEK('1998-02-09');
+-----+
| DAYOFWEEK('1998-02-09') |
+-----+
| 2 |
```

Print the day of year(return 1 to 366)

```
mysql> SELECT DAYOFYEAR('1998-02-03');
+-----+
| DAYOFYEAR('1998-02-03') |
+-----+
| 34 |
```

• Print month of the year

```
mysql> SELECT MONTHNAME('1998-02-05');
+------
| MONTHNAME('1998-02-05') |
+------
| February |
```

 <u>Date difference</u>- find the difference between '2016-04-13' and '2014-09-23' in months, Days and years select timestampdiff(month, '2014-04-13', '2014-09-23');

select timestampdiff(day, '2014-09-23', '2016-04-13');

select timestampdiff(year, '2014-09-23', '2016-04-13');

Index:

1.

2. & 3.

5.

```
mysql> drop index name_index on customer2;
Query OK, 0 rows affected (0.21 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> show index from customer2;
Empty set (0.00 sec)
```

Pattern Matching: