

GITAM SCHOOL OF SCIENCES (GSS)
GITAM (Deemed to be University), Bengaluru Campus – 562163
DEPARTMENT OF COMPUTER SCIENCE

Program : B.C.A

Semester : IV

Course Code : CSCI2071

Course Title : DBMS Lab

Course Faculty : Dr. Rajesh L

Experiment 6: To implement Cursors in MySQL

Create a Database and name it as **“customer”**

Syntax:

CREATE DATABASE databasename

Example:

CREATE DATABASE customer;

To ensure whether the database name already exists or not, Use the following command:

CREATE DATABASE IF NOT EXISTS customer;

Create a Table **cust** and save it in the invoice database

Name of the Table	cust	
Column Name	Format	Remarks
cust_id	Varchar(3)	Primary Key, NOT NULL
Lname	Varchar(15)	
Fname	Varchar(15)	
Area	Varchar(2)	

Syntax:

CREATE TABLE cust (
 cust_id varchar(3) NOT NULL,
 lname varchar(15),
 fname varchar(15),
 area varchar(2),
 PRIMARY KEY (cust_id)

);

Insert the following data into the cust table:

Cust_id	Lname	Fname	Area
a01	Gill	Shubman	sa
a02	Rajesh	Siddharth	mu
a03	Kohli	Virat	da
a04	Mirza	Sania	ba
a05	Mandhana	Smriti	va
a06	Dhoni	MS	gh

To use a cursor, we need to follow the steps given below (in the same order)

- ❖ Declare the cursor using the DECLARE Statement.
- ❖ Declare variables and conditions.
- ❖ Open the declared cursor using the OPEN Statement.
- ❖ Retrieve the desired records from a table using the FETCH Statement.
- ❖ Finally close the cursor using the CLOSE statement

```
CREATE TABLE cust_dump (  
    cust_id varchar(3) NOT NULL,  
    lname varchar(15),  
    fname varchar(15),  
    area varchar(2),  
  
    PRIMARY KEY (cust_id)
```

```
DELIMITER //
CREATE PROCEDURE CursorProc()
  BEGIN
    DECLARE done INT DEFAULT 0;
    DECLARE cust_id VARCHAR(3);
    DECLARE lname,fname, VARCHAR(15);
    DECLARE area VARCHAR(2);
    DECLARE cur CURSOR FOR SELECT * FROM cust;
    DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
    OPEN cur;
    label: LOOP
      FETCH cur INTO cust_id,lname,fname,area;
      INSERT INTO cust_dump VALUES(cust_id, lname,fname,area);
      IF done = 1 THEN LEAVE label;
      END IF;
    END LOOP;
    CLOSE cur;
  END//
DELIMITER ;
```

```
mysql> CALL CursorProc;
```