# **MySQL Cursor**

In MySQL, Cursor can also be created. Following are the steps for creating a cursor.

### 1. Declare Cursor

A cursor is a select statement, defined in the declaration section in MySQL.

#### **Syntax**

- 1. DECLARE cursor name CURSOR FOR
- 2. **Select** statement;

#### **Parameter:**

cursor name: name of the cursor

select\_statement: select query associated with the cursor

# 2. Open Cursor

After declaring the cursor the next step is to open the cursor using open statement.

## **Syntax**

1. Open cursor name;

#### **Parameter:**

**cursor\_name:** name of the cursor which is already declared.

### 3. Fetch Cursor

After declaring and opening the cursor, the next step is to fetch the cursor. It is used to fetch the row or the column.

## **Syntax**

1. **FETCH** [ **NEXT** [ **FROM** ] ] cursor name **INTO** variable list;

#### **Parameter:**

cursor name: name of the cursor

variable list: variables, comma separated, etc. is stored in a cursor for the result set

# 4. Close Cursor

The final step is to close the cursor.

## **Syntax**

1. Close cursor\_name;

#### **Parameter:**

Cursor\_name: name of the cursor

# **Example for the cursor:**

ADVERTISEMENT

**Step 1:** Open the database and table.

MySQL 8.0 Command Line Client mysql> use test1; Database changed mysql> select *from table1;		
id	name	class
++		
1	Shristee	MCA
2	Ajay	BCA
3	Shweta	MCA
4	Dolly	BCA
5	Heena	MCA
6	Kiran	BCA
7	Sonal	MCA
8	Dimple	BCA
9	Shyam	MCA
10	Mohit	BCA
++		
10 rows in set (1.24 sec)		

**Step 2:** Now create the cursor.

Query:

```
mysql> DELIMITER $$
mysql> CREATE PROCEDURE list name (INOUT name list varchar(4000))
    -> BEGIN
   -> DECLARE is_done INTEGER DEFAULT 0;
    -> DECLARE s name varchar(100) DEFAULT "";
    -> DECLARE stud cursor CURSOR FOR
    -> SELECT name FROM table1;
   -> DECLARE CONTINUE HANDLER FOR NOT FOUND SET is done = 1;
   -> OPEN stud cursor;
   -> get_list: LOOP
   -> FETCH stud_cursor INTO s_name;
   -> IF is_done = 1 THEN
   -> LEAVE get_list;
   -> END IF;
   -> SET name_list = CONCAT(s_name, ";",name_list);
    -> END LOOP get_list;
    -> CLOSE stud_cursor;
    -> END$$
Query OK, 0 rows affected (0.24 sec)
Step 3: Now call the cursor.
Query:
  1. SET @name list ="";
  2. CALL list name(@name list);
  3. SELECT @name list;
mysql> SET @name_list ="";
Query OK, 0 rows affected (0.00 sec)
mysql> CALL list_name(@name_list);
Query OK, 0 rows affected (0.02 sec)
mysql> SELECT @name_list;
<del>-----</del>
@name_list
+-----
| Mohit;Shyam;Dimple;Sonal;Kiran;Heena;Dolly;Shweta;Ajay;Shristee; |
+-----
1 row in set (0.00 sec)
```