

Practical No:05

mysql> CREATE DATABASE class;

Query OK, 1 row affected (0.01 sec)

mysql> USE class;

Database changed

mysql> CREATE TABLE O_RollCall (

-> roll_no INT(3),

-> name VARCHAR(20)

->);

Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE N_RollCall (

-> roll_no INT(3),

-> name VARCHAR(20)

->);

Query OK, 0 rows affected (0.01 sec)

mysql> INSERT INTO O_RollCall VALUES (1, 'Avi');

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO O_RollCall VALUES (2, 'Ram');

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO O_RollCall VALUES (3, 'Soham');

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO O_RollCall VALUES (5, 'Mohan');

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO O_RollCall VALUES (6, 'Om');

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO O_RollCall VALUES (9, 'Yash');

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO O_RollCall VALUES (11, 'Mayur');

Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM O_RollCall;

+-----+-----+

| roll_no | name |

+-----+-----+

| 1 | Avi |

| 2 | Ram |

	3	Soham	
	5	Mohan	
	6	Om	
	9	Yash	
	11	Mayur	
+-----+-----+			

7 rows in set (0.00 sec)

```
mysql> SELECT * FROM N_RollCall;
Empty set (0.00 sec)
```

```
mysql> DELIMITER //
```

```
mysql> CREATE PROCEDURE cursor_proc_p1()
-> BEGIN
-> DECLARE fin INTEGER DEFAULT 0;
-> DECLARE old_roll INT(3);
-> DECLARE old_name VARCHAR(20);
-> DECLARE new_roll INT(3);
-> DECLARE old_csr CURSOR FOR SELECT roll_no, name FROM O_RollCall;
-> DECLARE new_csr CURSOR FOR SELECT roll_no FROM N_RollCall;
-> DECLARE CONTINUE HANDLER FOR NOT FOUND SET fin=1;
->
-> OPEN old_csr;
-> OPEN new_csr;
->
-> ss: LOOP
->   FETCH old_csr INTO old_roll, old_name;
->   FETCH new_csr INTO new_roll;
->
->   IF fin=1 THEN
->     LEAVE ss;
->   END IF;
->
->   IF old_roll <> new_roll THEN
->     INSERT INTO N_RollCall VALUES(old_roll, old_name);
->   END IF;
-> END LOOP;
->
-> CLOSE old_csr;
-> CLOSE new_csr;
-> END //
```

Query OK, 0 rows affected (0.04 sec)

```
mysql> DELIMITER ;
```

mysql> DELIMITER //

mysql> CREATE PROCEDURE cursor_proc_p2(IN r1 INT)

```
-> BEGIN  
-> DECLARE r2 INT;  
-> DECLARE exit_loop BOOLEAN DEFAULT FALSE;  
-> DECLARE c1 CURSOR FOR SELECT roll_no FROM O_RollCall WHERE  
roll_no > r1;  
-> DECLARE CONTINUE HANDLER FOR NOT FOUND SET exit_loop=TRUE;  
->  
-> OPEN c1;  
->  
-> e_loop: LOOP  
->   FETCH c1 INTO r2;  
->  
->   IF NOT EXISTS(SELECT * FROM N_RollCall WHERE roll_no = r2) THEN  
->     INSERT INTO N_RollCall SELECT * FROM O_RollCall WHERE roll_no =  
r2;  
->   END IF;  
->  
->   IF exit_loop THEN  
->     CLOSE c1;  
->     LEAVE e_loop;  
->   END IF;  
-> END LOOP e_loop;  
-> END //
```

Query OK, 0 rows affected (0.03 sec)

mysql> DELIMITER ;

mysql> CALL cursor_proc_p2(5);

Query OK, 0 rows affected (0.02 sec)

mysql> SELECT * FROM O_RollCall;

```
+-----+-----+  
| roll_no | name |  
+-----+-----+  
| 1 | Avi |  
| 2 | Ram |  
| 3 | Soham |  
| 5 | Mohan |  
| 6 | Om |  
| 9 | Yash |  
| 11 | Mayur |  
+-----+-----+
```

7 rows in set (0.00 sec)

mysql> SELECT * FROM N_RollCall;

roll_no	name
6	Om
9	Yash
11	Mayur

3 rows in set (0.00 sec)

mysql> CALL cursor_proc_p2(3);

Query OK, 0 rows affected (0.02 sec)

mysql> CALL cursor_proc_p10;

Query OK, 0 rows affected (0.03 sec)

mysql> SELECT * FROM O_RollCall;

roll_no	name
1	Avi
2	Ram
3	Soham
5	Mohan
6	Om
9	Yash
11	Mayur

7 rows in set (0.00 sec)

mysql> SELECT * FROM N_RollCall;

roll_no	name
6	Om
9	Yash
11	Mayur
1	Avi
2	Ram
3	Soham
5	Mohan

7 rows in set (0.00 sec)