

**AIM:** Cursors :( All types: Implicit, Explicit, Cursor FOR Loop, Parameterized Cursor)

**Problem Statement:** Write a PL/SQL block of code using parameterized Cursor that will merge the data available in the newly created table N\_Roll Call with the data available in the table O\_RollCall. If the data in the first table already exist in the second table then that data should be skipped. Note: Instructor will frame the problem statement for writing PL/SQL block using all types of Cursors in line with above statement.

## TABLES

```
mysql> SHOW TABLES;
+-----+
| Tables_in_cursor_database |
+-----+
| N_RollCall                |
| O_RollCall                |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM N_RollCall;
+-----+-----+
| Roll_no | Name   |
+-----+-----+
|      1 | Tejas  |
|      2 | Sujal  |
|      5 | Hitesh |
+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM O_RollCall;
+-----+-----+
| Roll_no | Name   |
+-----+-----+
|      1 | Rohan |
|      2 | Sujal |
|      3 | Sumit |
+-----+-----+
3 rows in set (0.00 sec)
```

## PROCEDURE & CALL

```
mysql> DELIMITER $$  
mysql>  
mysql> CREATE PROCEDURE merge_rollcall_data()  
→ BEGIN  
→     DECLARE v_rollno INT;  
→     DECLARE v_name VARCHAR(20);  
→     DECLARE done INT DEFAULT 0;  
→  
→     DECLARE cur CURSOR FOR  
→         SELECT Roll_no FROM N_RollCall;  
→  
→     DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;  
→  
→     OPEN cur;  
→  
→     read_loop: LOOP  
→         FETCH cur INTO v_rollno;  
→         IF done = 1 THEN  
→             LEAVE read_loop;  
→         END IF;  
→  
→         IF(SELECT COUNT(*) FROM O_RollCall WHERE Roll_no=v_rollno)=0  
→         THEN  
→             SELECT Name  
→                 INTO v_name  
→                 FROM N_RollCall  
→                 WHERE Roll_no = v_rollno;  
→  
→             INSERT INTO O_RollCall(Roll_no,Name)  
→             VALUES (v_rollno,v_name);  
→         END IF;  
→     END LOOP;  
→     CLOSE cur;  
→ END$$  
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> DELIMITER ;  
mysql> CALL merge_rollcall_data();  
Query OK, 0 rows affected (0.02 sec)
```

## OUTPUT

```
mysql> SELECT * FROM O_RollCall;  
+-----+-----+  
| Roll_no | Name   |  
+-----+-----+  
|      1 | Rohan |  
|      2 | Sujal |  
|      3 | Sumit |  
|      5 | Hitesh |  
+-----+-----+  
4 rows in set (0.00 sec)
```