Assignment No. 7(A)

Title: 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.


```
mysql> CREATE DATABASE Students;
Query OK, 1 row affected (0.00 sec)

mysql> USE Students;
Database changed

mysql> CREATE TABLE N_RollCall(rollno INT,name VARCHAR(30));
Query OK, 0 rows affected (0.01 sec)
mysql> CREATE TABLE O_RollCall(rollno INT,name VARCHAR(30));
Query OK, 0 rows affected (0.01 sec)
mysql> INSERT INTO N_RollCall values(1,"Shweta"),(2,"Vaishnavi"),(3,"Ankita"),(4,"Utkarsha");
Query OK, 4 rows affected (0.01 sec)
Records: 4  Duplicates: 0  Warnings: 0
mysql> INSERT INTO O_RollCall values(2,"Vaishnavi"),(3,"Ankita"),(5,"Ruchita"),(6,"Nikita");
Query OK, 4 rows affected (0.00 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM N_RollCall;
+--------+-------------+
| rollno | name        |
+--------+-------------+
|   1    | Shweta      |
|   2    | Vaishnavi   |
|   3    | Ankita      |
|   4    | Utkarsha    |
+--------+-------------+
4 rows in set (0.00 sec)

mysql> SELECT * FROM O_RollCall;
+--------+-------------+
| rollno | name        |
+--------+-------------+
|   2    | Vaishnavi   |
|   3    | Ankita      |
|   5    | Ruchita     |
|   6    | Nikita      |
+--------+-------------+
4 rows in set (0.00 sec)
```

```
***************************Defining Procedure With Cursor***************************
mysql> drop procedure if exists mycursor1;
Query OK, 0 rows affected, 1 warning (0.01 sec)
mysql>
mysql> delimiter //
mysql> CREATE PROCEDURE mycursor1()
  -> BEGIN
  ->    DECLARE done INT DEFAULT 0;
  ->    DECLARE  c_rollno int;
  ->    DECLARE  c_name char(20);
  ->
  ->     DECLARE  c_studentN CURSOR  for SELECT rollno,name FROM O_RollCall where rollno not
in(select rollno from N_RollCall);
  ->
  ->    DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
  ->    BEGIN
  ->      OPEN c_studentN;
  ->       read_loop:LOOP
  ->         FETCH c_studentN into c_rollno, c_name;
  ->
  ->          IF done = 1 THEN
  ->           LEAVE read_loop;
  ->          END IF;
  ->
  ->         insert into N_RollCall(rollno,name) values(c_rollno, c_name);
  ->
  ->       END LOOP;
  ->       CLOSE c_studentN;
  ->    END;
  -> END;
  -> //
Query OK, 0 rows affected (0.00 sec)

mysql> delimiter ;
***************************************************************************************

***************************Calling Procedure with Cursor***************************
mysql> call mycursor1();
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM N_RollCall;
+--------+-------------+
| rollno | name        |
+--------+-------------+
|   1    | Shweta      |
|   2    | Vaishnavi   |
```

```
|    3   | Ankita   |
|    4   | Utkarsha |
|    5   | Ruchita  |
|    6   | Nikita   |
+--------+-------------+
6 rows in set (0.00 sec)

mysql> SELECT * FROM O_RollCall;
+--------+-------------+
| rollno | name        |
+--------+-------------+
|    2   | Vaishnavi |
|    3   | Ankita    |
|    5   | Ruchita   |
|    6   | Nikita    |
+--------+-------------+
4 rows in set (0.00 sec)

mysql>
**********************************************************************************
```