DBMSL ASSIGNMENT - 6

Roll No.: 31446

Cursors: (All types: Implicit, Explicit, Cursor FOR loop, Parameterised Cursor)

Write a PL/SQL block of code using parameterized Cursor that will merge the data available in the newly created table N_RollCall with the data available in the table O_RollCall. If the data in the first table already exists in the second table then that data should be skipped.

1) CREATION OF TABLES

```
CREATE TABLE O_RollCall (
  student_id INT PRIMARY KEY,
  student_name VARCHAR(100),
  attendance_date DATE
);
DESC 0_RollCall;
+----+
| Field | Type | Null | Key | Default | Extra |
+-----+
+------
CREATE TABLE N_RollCall (
  student_id INT,
  student_name VARCHAR(100),
  attendance_date DATE
);
DESC N RollCall:
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
```

2) INSERT SAMPLE RECORDS

3) PROCEDURE WITH CURSOR

```
DELIMITER $$
CREATE PROCEDURE MergeRollCall()
BEGIN
   DECLARE v_student_id INT;
    DECLARE v_student_name VARCHAR(100);
   DECLARE v_attendance_date DATE;
   DECLARE done INT DEFAULT FALSE;
   DECLARE cur CURSOR FOR
   SELECT student_id, student_name, attendance_date FROM N_RollCall;
   DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;
   SET done = FALSE;
   OPEN cur;
    read_loop: LOOP
        FETCH cur INTO v_student_id, v_student_name, v_attendance_date;
        IF done THEN
            LEAVE read_loop;
        END IF;
        IF NOT EXISTS (
            SELECT 1 FROM 0 RollCall
            WHERE student id = v student id
              AND student_name = v_student_name
              AND attendance_date = v_attendance_date
            INSERT INTO O_RollCall(student_id, student_name, attendance_date)
            VALUES(v_student_id, v_student_name, v_attendance_date);
        END IF;
   END LOOP;
   CLOSE cur;
END $$
DELIMITER;
```

4) EXECUTE PROCEDURE

CALL MergeRollCall();

| SELECT * FROM O_RollCall; | | |
|---------------------------|------------------------------------|-----------------|
| student_id | student_name | attendance_date |
| 2 | Vijay Sita Dev Yash | 2025-09-20 |

4 rows in set (0.00 sec)