ASSIGNMENT NO - 06

PROGRAM:

```
USE  practical;
-- Drop the N_RollCall and O_RollCall table if it exists
DROP TABLE IF EXISTS N_RollCall;
DROP TABLE IF EXISTS O_RollCall;
```

STEP 1: Create table **N_RollCall**
```
CREATE TABLE N_RollCall (
   RollCallID     INT PRIMARY KEY,
   StudentID      INT NOT NULL,
   AttendanceDate  DATE NOT NULL
);
```

STEP 2: Create table **O_RollCall**
```
CREATE TABLE O_RollCall (
   RollCallID     INT PRIMARY KEY,
   StudentID      INT NOT NULL,
   AttendanceDate  DATE NOT NULL
);
```

STEP 3: Insert values into tables
```
INSERT INTO N_RollCall (RollCallID, StudentID, AttendanceDate) VALUES
(1, 1001, '2024-09-20'),
(2, 1002, '2024-09-20'),
(3, 1003, '2024-09-21');

DROP PROCEDURE IF EXISTS MergeRollCallData;
```

STEP 4: PL/SQL Code

```
DELIMITER //

CREATE PROCEDURE MergeRollCallData()
BEGIN
   -- Declare variables
   DECLARE v_RollCallID INT;
   DECLARE v_StudentID INT;
   DECLARE v_AttendanceDate DATE;
   DECLARE v_count INT;
   DECLARE done INT DEFAULT 0;

   -- Declare a cursor to select data from N_RollCall
   DECLARE c_RollCall CURSOR FOR
      SELECT RollCallID, StudentID, AttendanceDate
      FROM N_RollCall;

   -- Declare a CONTINUE HANDLER for NOT FOUND
```

```
        DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;

    -- Open the cursor
    OPEN c_RollCall;

    -- Loop through each row in the cursor
    FETCH_LOOP: LOOP
        FETCH c_RollCall INTO v_RollCallID, v_StudentID, v_AttendanceDate;

        IF done THEN
            LEAVE FETCH_LOOP;
        END IF;

        -- Check if the data already exists in O_RollCall
        SELECT COUNT(*)
        INTO v_count
        FROM O_RollCall
        WHERE RollCallID = v_RollCallID
          AND StudentID = v_StudentID
          AND AttendanceDate = v_AttendanceDate;

        -- If the data does not exist, insert it into O_RollCall
        IF v_count = 0 THEN
            INSERT INTO O_RollCall (RollCallID, StudentID, AttendanceDate)
            VALUES (v_RollCallID, v_StudentID, v_AttendanceDate);
        END IF;
    END LOOP FETCH_LOOP;

    -- Close the cursor
    CLOSE c_RollCall;
END;
//

DELIMITER ;
--call procedure
CALL MergeRollCallData();
```

OUTPUT:
SELECT * FROM O_RollCall;

RollCallID	StudentID	AttendanceDate
1	1001	2024-09-20
2	1002	2024-09-20
3	1003	2024-09-21
NULL	NULL	NULL