-- Create database

CREATE DATABASE roll\_call\_db;

USE roll\_call\_db;

-- Create tables

CREATE TABLE N\_RollCall (

RollCall\_ID INT PRIMARY KEY,

Date DATE,

Attendance VARCHAR(20),

Student\_ID INT,

Teacher\_ID INT

);

CREATE TABLE O\_RollCall (

RollCall\_ID INT PRIMARY KEY,

Date DATE,

Attendance VARCHAR(20),

Student\_ID INT,

Teacher\_ID INT

);

-- Insert sample data into N\_RollCall

INSERT INTO N\_RollCall VALUES (1, '2023-01-01', 'Present', 101, 201);

INSERT INTO N\_RollCall VALUES (2, '2023-01-02', 'Absent', 102, 202);

INSERT INTO N\_RollCall VALUES (3, '2023-01-03', 'Present', 103, 203);

-- Insert sample data into O\_RollCall

INSERT INTO O\_RollCall VALUES (1, '2023-01-01', 'Present', 101, 201);

INSERT INTO O\_RollCall VALUES (2, '2023-01-02', 'Present', 102, 202);

DELIMITER //

CREATE PROCEDURE merge\_roll\_call\_data()

BEGIN

DECLARE done INT DEFAULT FALSE;

DECLARE n\_rollcall\_id INT;

DECLARE o\_rollcall\_id INT;

DECLARE n\_date DATE;

DECLARE o\_date DATE;

DECLARE n\_attendance VARCHAR(20);

DECLARE o\_attendance VARCHAR(20);

DECLARE n\_student\_id INT;

DECLARE o\_student\_id INT;

DECLARE n\_teacher\_id INT;

DECLARE o\_teacher\_id INT;

DECLARE v\_exists INT DEFAULT 0;

DECLARE cur\_n\_rollcall CURSOR FOR

SELECT RollCall\_ID, Date, Attendance, Student\_ID, Teacher\_ID

FROM N\_RollCall;

DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;

OPEN cur\_n\_rollcall;

read\_loop: LOOP

FETCH cur\_n\_rollcall INTO n\_rollcall\_id, n\_date, n\_attendance, n\_student\_id, n\_teacher\_id;

IF done THEN

LEAVE read\_loop;

END IF;

-- Check if the current row exists in O\_RollCall

SELECT COUNT(\*) INTO v\_exists

FROM O\_RollCall

WHERE RollCall\_ID = n\_rollcall\_id AND Date = n\_date AND Student\_ID = n\_student\_id AND Teacher\_ID = n\_teacher\_id;

IF v\_exists = 0 THEN

-- Insert the row from N\_RollCall into O\_RollCall

INSERT INTO O\_RollCall (RollCall\_ID, Date, Attendance, Student\_ID, Teacher\_ID)

VALUES (n\_rollcall\_id, n\_date, n\_attendance, n\_student\_id, n\_teacher\_id);

END IF;

END LOOP;

CLOSE cur\_n\_rollcall;

END //

DELIMITER ;

-- Call the procedure

CALL merge\_roll\_call\_data();

-- Verify the results

SELECT \* FROM O\_RollCall;