CREATE DATABASE IF NOT EXISTS three;

USE three;

-- Step 2: Create the tables

CREATE TABLE IF NOT EXISTS N\_Roll\_Call (

Roll\_No INT PRIMARY KEY,

Student\_Name VARCHAR(50)

);

CREATE TABLE IF NOT EXISTS O\_Roll\_Call (

Roll\_No INT PRIMARY KEY,

Student\_Name VARCHAR(50)

);

-- Step 3: Insert data into N\_Roll\_Call

INSERT INTO N\_Roll\_Call (Roll\_No, Student\_Name) VALUES

(101, 'Alice'),

(102, 'Bob'),

(103, 'Charlie'),

(104, 'David'),

(105, 'Eve'),

(106, 'Frank'),

(107, 'Grace'),

(108, 'Hannah'),

(109, 'Ian'),

(110, 'Jack');

-- Step 4: Insert data into O\_Roll\_Call

INSERT INTO O\_Roll\_Call (Roll\_No, Student\_Name) VALUES

(101, 'Alice'),

(102, 'Bob'),

(111, 'Karen'),

(112, 'Leo'),

(113, 'Mike'),

(114, 'Nancy'),

(115, 'Oliver'),

(116, 'Peter'),

(117, 'Quinn'),

(118, 'Rachel');

-- Step 5: Create the stored procedure to merge roll calls using a cursor

DELIMITER $$

CREATE PROCEDURE merge\_roll\_call(IN min\_roll\_no INT)

BEGIN

DECLARE done INT DEFAULT FALSE;

DECLARE v\_roll\_no INT;

DECLARE v\_student\_name VARCHAR(50);

-- Declare the cursor to select records from N\_Roll\_Call based on the minimum roll number

DECLARE n\_roll\_cursor CURSOR FOR

SELECT Roll\_No, Student\_Name FROM N\_Roll\_Call WHERE Roll\_No >= min\_roll\_no;

-- Handler for when the cursor completes

DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;

-- Open the cursor

OPEN n\_roll\_cursor;

-- Loop through the records

read\_loop: LOOP

-- Fetch each row from the cursor

FETCH n\_roll\_cursor INTO v\_roll\_no, v\_student\_name;

-- Exit the loop if no more rows

IF done THEN

LEAVE read\_loop;

END IF;

-- Insert into O\_Roll\_Call if the Roll\_No does not exist

IF NOT EXISTS (SELECT 1 FROM O\_Roll\_Call WHERE Roll\_No = v\_roll\_no) THEN

INSERT INTO O\_Roll\_Call (Roll\_No, Student\_Name) VALUES (v\_roll\_no, v\_student\_name);

END IF;

END LOOP;

-- Close the cursor

CLOSE n\_roll\_cursor;

END $$

DELIMITER ;

-- Step 6: Call the procedure with a minimum roll number

CALL merge\_roll\_call(100);

-- Step 7: View the updated records in O\_Roll\_Call

SELECT \* FROM O\_Roll\_Call;