

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 exist in the second table then that data should be skipped.

Solution:

### Summary:

Component	Purpose
CURSOR	Loops through N_RollCall
IF NOT EXISTS	Skips inserting if already exists
student_id	Used as the unique identifier

### Step 1:

```
CREATE TABLE O_RollCall (  
  student_id INT PRIMARY KEY,  
  student_name VARCHAR(100),  
  date_attended DATE  
);
```

```
CREATE TABLE N_RollCall (  
  student_id INT,  
  student_name VARCHAR(100),  
  date_attended DATE  
);
```

### Step 2:

```
DELIMITER //
```

```
CREATE PROCEDURE Merge_RollCall()
```

```

BEGIN
  DECLARE done INT DEFAULT FALSE;
  DECLARE v_id INT;
  DECLARE v_name VARCHAR(100);
  DECLARE v_date DATE;

  -- Cursor to loop through N_RollCall
  DECLARE cur CURSOR FOR
    SELECT student_id, student_name, date_attended FROM N_RollCall;

  DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;

  OPEN cur;

  read_loop: LOOP
    FETCH cur INTO v_id, v_name, v_date;

    IF done THEN
      LEAVE read_loop;
    END IF;

    -- Check if student_id exists in O_RollCall
    IF NOT EXISTS (SELECT 1 FROM O_RollCall WHERE student_id = v_id) THEN
      INSERT INTO O_RollCall (student_id, student_name, date_attended)
        VALUES (v_id, v_name, v_date);
    END IF;
    -- Else skip
  END LOOP;

  CLOSE cur;
END;
//

DELIMITER ;

```

### Step 3:

```
CALL Merge_RollCall();
```

```
SELECT * FROM O_RollCall;
```

