-- 1. Create N\_RollCall Table

CREATE TABLE N\_RollCall (

RollNo NUMBER,

Name VARCHAR2(100),

Subject VARCHAR2(100)

);

-- 2. Create O\_RollCall Table

CREATE TABLE O\_RollCall (

RollNo NUMBER,

Name VARCHAR2(100),

Subject VARCHAR2(100)

);

-- 3. Insert sample data into N\_RollCall

INSERT INTO N\_RollCall (RollNo, Name, Subject) VALUES (1, 'John Doe', 'Mathematics');

INSERT INTO N\_RollCall (RollNo, Name, Subject) VALUES (2, 'Jane Smith', 'Science');

INSERT INTO N\_RollCall (RollNo, Name, Subject) VALUES (3, 'Sam Brown', 'English');

INSERT INTO N\_RollCall (RollNo, Name, Subject) VALUES (4, 'Lisa White', 'History');

-- 4. Insert sample data into O\_RollCall

INSERT INTO O\_RollCall (RollNo, Name, Subject) VALUES (1, 'John Doe', 'Mathematics');

-- This will not be inserted again as RollNo = 1 already exists

INSERT INTO O\_RollCall (RollNo, Name, Subject) VALUES (5, 'Mike Green', 'Chemistry');

-- 5. PL/SQL Block to merge data using a cursor

DECLARE

-- Declare the cursor to fetch records from N\_RollCall

CURSOR n\_roll\_cursor IS

SELECT RollNo, Name, Subject

FROM N\_RollCall;

-- Declare variables with data types manually

v\_rollno NUMBER; -- RollNo as NUMBER

v\_name VARCHAR2(100); -- Name as VARCHAR2(100)

v\_subject VARCHAR2(100); -- Subject as VARCHAR2(100)

v\_exists NUMBER; -- Variable to store check result (1 if exists, 0 if not)

BEGIN

-- Open the cursor

OPEN n\_roll\_cursor;

-- Loop through all records in the N\_RollCall table

LOOP

-- Fetch the data from the cursor into local variables

FETCH n\_roll\_cursor INTO v\_rollno, v\_name, v\_subject;

-- Exit the loop if no more data is available

EXIT WHEN n\_roll\_cursor%NOTFOUND;

-- Check if the record already exists in O\_RollCall

SELECT COUNT(\*) INTO v\_exists

FROM O\_RollCall

WHERE RollNo = v\_rollno;

-- If the record does not exist in O\_RollCall, insert it

IF v\_exists = 0 THEN

-- Insert the record into O\_RollCall if it does not exist

INSERT INTO O\_RollCall (RollNo, Name, Subject)

VALUES (v\_rollno, v\_name, v\_subject);

-- Output a message to indicate that the record was inserted

DBMS\_OUTPUT.PUT\_LINE('Inserted RollNo: ' || v\_rollno);

ELSE

-- Skip the insertion if the record already exists

DBMS\_OUTPUT.PUT\_LINE('Skipped RollNo: ' || v\_rollno);

END IF;

END LOOP;

-- Close the cursor

CLOSE n\_roll\_cursor;

-- Commit the changes to save the insertions

COMMIT;

END;

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