-- Step 1: Create the Stud table

CREATE TABLE stud (

roll NUMBER PRIMARY KEY,

name VARCHAR2(100),

attendance NUMBER,

status VARCHAR2(20)

);

-- Step 2: Insert sample student data into the Stud table

INSERT INTO stud (roll, name, attendance, status)

VALUES (101, 'John Doe', 80, 'Not Detained');

INSERT INTO stud (roll, name, attendance, status)

VALUES (102, 'Jane Smith', 70, 'Not Detained');

INSERT INTO stud (roll, name, attendance, status)

VALUES (103, 'Sam Wilson', 60, 'Not Detained');

INSERT INTO stud (roll, name, attendance, status)

VALUES (104, 'Emma Watson', 85, 'Not Detained');

-- Commit the changes

COMMIT;

-- Step 3: PL/SQL block to check attendance and update status

DECLARE

v\_roll\_no STUD.roll%TYPE; -- Variable to store roll number

v\_attendance STUD.attendance%TYPE; -- Variable to store attendance percentage

BEGIN

-- Prompt user for Roll No

DBMS\_OUTPUT.PUT\_LINE('Enter Roll No:');

-- User input for roll number (replace &roll\_no with actual input prompt if using in SQL\*Plus)

v\_roll\_no := &roll\_no;

-- Fetch attendance from Stud table for the given roll number

SELECT attendance INTO v\_attendance

FROM stud

WHERE roll = v\_roll\_no;

-- Check if attendance is less than 75%

IF v\_attendance < 75 THEN

-- If attendance is less, display message and update status to "Detained"

DBMS\_OUTPUT.PUT\_LINE('Term not granted');

UPDATE stud

SET status = 'Detained'

WHERE roll = v\_roll\_no;

ELSE

-- If attendance is 75% or more, display message and update status to "Not Detained"

DBMS\_OUTPUT.PUT\_LINE('Term granted');

UPDATE stud

SET status = 'Not Detained'

WHERE roll = v\_roll\_no;

END IF;

-- Commit the changes to the database

COMMIT;

EXCEPTION

-- Exception handler for cases where the roll number does not exist

WHEN NO\_DATA\_FOUND THEN

DBMS\_OUTPUT.PUT\_LINE('Error: Roll number not found');

-- Exception handler for any other database errors

WHEN OTHERS THEN

DBMS\_OUTPUT.PUT\_LINE('An error occurred: ' || SQLERRM);

ROLLBACK;

END;

/