TUTORIAL

PL/SQL Scenario-Based Question: Procedure and Function

You are designing a student management system for a college. The system must allow storing and calculating academic performance for students.

Task 1: Create a Table

Create a table named student_scores with the following structure:

```
CREATE TABLE student_scores (
student_id NUMBER PRIMARY KEY,
name VARCHAR2(50),
mark1 NUMBER,
mark2 NUMBER,
mark3 NUMBER,
total NUMBER,
grade VARCHAR2(2)
);
```

Task 2: Write a Function named calculate_total

This function should:

- Accept 3 marks as input parameters (mark1, mark2, mark3).
- Return the total of the 3 marks.

Task 3: Write a Procedure named update_student_result

This procedure should:

- Accept student_id, mark1, mark2, and mark3 as input.
- Calculate the total using the calculate_total function.
- Assign a grade based on the total:
 - 'A' if total \geq 240
 - 'B' if total \geq 180 and < 240
 - 'C' if total < 180
- Update the corresponding student's total and grade in the student_scores table.

Task 4: Test the Procedure

Insert a sample student and call the procedure to update their marks, total, and grade.