**Exercise 3: Stored Procedures** in PL/SQL

**Scenario 1: Monthly Interest for Savings Accounts**

*ProcessMonthlyInterest*

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**Assume Table name is SavingsAccounts, and it has a Balance column.**

**Scenario 2: Employee Bonus Based on Performance**

*UpdateEmployeeBonus*

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**Assume Table name is Employees, with columns Salary and DepartmentID.**

**Scenario 3: Fund Transfer Between Accounts**

*TransferFunds*

*CREATE OR REPLACE PROCEDURE TransferFunds (*

*from\_account IN NUMBER,*

*to\_account IN NUMBER,*

*amount IN NUMBER*

*) IS*

*insufficient\_balance EXCEPTION;*

*current\_balance NUMBER;*

*BEGIN*

*-- Get balance of source account*

*SELECT Balance INTO current\_balance*

*FROM Accounts*

*WHERE AccountID = from\_account;*

*-- Check for sufficient balance*

*IF current\_balance < amount THEN*

*RAISE insufficient\_balance;*

*END IF;*

*-- Deduct from source*

*UPDATE Accounts*

*SET Balance = Balance - amount*

*WHERE AccountID = from\_account;*

*-- Add to destination*

*UPDATE Accounts*

*SET Balance = Balance + amount*

*WHERE AccountID = to\_account;*

*DBMS\_OUTPUT.PUT\_LINE('Transferred ' || amount || ' from Account ' || from\_account || ' to Account ' || to\_account);*

*EXCEPTION*

*WHEN insufficient\_balance THEN*

*DBMS\_OUTPUT.PUT\_LINE('Transfer failed: insufficient balance in Account ' || from\_account);*

*WHEN NO\_DATA\_FOUND THEN*

*DBMS\_OUTPUT.PUT\_LINE('Transfer failed: One or both account IDs not found.');*

*WHEN OTHERS THEN*

*DBMS\_OUTPUT.PUT\_LINE('Transfer failed: ' || SQLERRM);*

*END;*

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