**Scenario 1:** The bank needs to process monthly interest for all savings accounts.

**Question:** Write a stored procedure **ProcessMonthlyInterest** that calculates and updates the balance of all savings accounts by applying an interest rate of 1% to the current balance.

**QUERY:**

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest AS

BEGIN

UPDATE Customers

SET

Balance = Balance + (Balance \* 0.01),

LASTMODIFIED = SYSDATE

WHERE ISVIP = 'FALSE';

COMMIT;

END;

/

call ProcessMonthlyInterest();

select \*from Customers;

**OUTPUT:**

A screenshot of a computer

AI-generated content may be incorrect.

**Scenario 2:** The bank wants to implement a bonus scheme for employees based on their performance.

**Question:** Write a stored procedure **UpdateEmployeeBonus** that updates the salary of employees in a given department by adding a bonus percentage passed as a parameter.

**QUERY:**

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus (

p\_department IN VARCHAR2,

p\_bonus\_percent IN NUMBER

)

AS

BEGIN

UPDATE Employees

SET Salary = Salary + (Salary \* p\_bonus\_percent / 100)

WHERE Department = p\_department;

DBMS\_OUTPUT.PUT\_LINE('Bonus applied successfully to ' || p\_department || ' department.');

END;

/

call UpdateEmployeeBonus('IT', 10);

call UpdateEmployeeBonus('HR', 40);

SELECT \* FROM Employees;

**OUTPUT:**

A screenshot of a computer

AI-generated content may be incorrect.

**Scenario 3:** Customers should be able to transfer funds between their accounts.

**Question:** Write a stored procedure **TransferFunds** that transfers a specified amount from one account to another, checking that the source account has sufficient balance before making the transfer.

**QUERY:**

CREATE OR REPLACE PROCEDURE TransferFunds (

p\_source\_id IN NUMBER,

p\_destination\_id IN NUMBER,

p\_amount IN NUMBER

)

AS

v\_source\_balance NUMBER;

BEGIN

-- Get source balance

SELECT Balance INTO v\_source\_balance

FROM Customers

WHERE CustomerID = p\_source\_id;

IF v\_source\_balance < p\_amount THEN

DBMS\_OUTPUT.PUT\_LINE('Insufficient balance in source account.');

ELSE

UPDATE Customers

SET Balance = Balance - p\_amount

WHERE CustomerID = p\_source\_id;

UPDATE Customers

SET Balance = Balance + p\_amount

WHERE CustomerID = p\_destination\_id;

DBMS\_OUTPUT.PUT\_LINE('Transfer of $' || p\_amount ||

' from Customer ' || p\_source\_id ||

' to Customer ' || p\_destination\_id || ' completed.');

END IF;

END;

/

call TransferFunds(8, 7, 200);

call TransferFunds(7, 8, 2000);

select \*from Customers;

**OUTPUT:**

