**Exercise 3: Stored Procedures**

****Scenario 1: Process Monthly Interest****

**PL/SQL CODE:**

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest IS

BEGIN

UPDATE ACCOUNTS

SET BALANCE = BALANCE + BALANCE\*0.01

WHERE ACCOUNTTYPE = 'Savings';

COMMIT;

END;

/

**Scenario 2: Update Employee Bonus**

**PL/SQL CODE:**

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus (dept VARCHAR2, bonus NUMBER ) IS

BEGIN

UPDATE EMPLOYEES

SET SALARY = SALARY + (SALARY\*bonus/100)

WHERE DEPARTMENT = dept;

COMMIT;

END;

/

**Scenario 3: Transfer Funds Between Customer Accounts**

**PL/SQL CODE:**

CREATE OR REPLACE PROCEDURE TransferFunds ( p\_fromAccountID IN NUMBER, p\_toAccountID IN NUMBER, p\_amount IN NUMBER) IS

DECLARE

fromBalance NUMBER;

BEGIN

SELECT Balance INTO fromBalance FROM Accounts WHERE AccountID = p\_FromAccountID FOR UPDATE;

IF fromBalance < p\_amount THEN

RAISE\_APPLICATION\_ERROR(-20001, 'Insufficient funds in source account.');

END IF;

UPDATE Accounts SET Balance = Balance - p\_Amount WHERE AccountID = p\_FromAccountID;

UPDATE Accounts SET Balance = Balance + p\_Amount WHERE AccountID = p\_ToAccountID;

COMMIT;

END;

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