**Exercise 3: Stored Procedures**

**-- Scenario 1**

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest IS

BEGIN

UPDATE Accounts

SET Balance = Balance + (Balance \* 0.01), LastModified = SYSDATE

WHERE AccountType = 'Savings';

COMMIT;

END;

/

**-- Scenario 2**

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus(p\_Department VARCHAR2, p\_BonusPct NUMBER) IS

BEGIN

UPDATE Employees

SET Salary = Salary + (Salary \* p\_BonusPct / 100)

WHERE Department = p\_Department;

COMMIT;

END;

/

**-- Scenario 3**

CREATE OR REPLACE PROCEDURE TransferFunds(p\_FromAcc NUMBER, p\_ToAcc NUMBER, p\_Amount NUMBER) IS

v\_Balance NUMBER;

BEGIN

SELECT Balance INTO v\_Balance FROM Accounts WHERE AccountID = p\_FromAcc FOR UPDATE;

IF v\_Balance < p\_Amount THEN

RAISE\_APPLICATION\_ERROR(-20001, 'Insufficient Balance');

END IF;

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

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

COMMIT;

END;

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