-- Exercise 3: Stored Procedures

-- Scenario 1: Process monthly interest for all savings accounts

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest

IS

BEGIN

UPDATE Accounts

SET Balance = Balance + (Balance \* 0.01)

WHERE AccountType = 'Savings';

COMMIT;

END ProcessMonthlyInterest;

-- Scenario 2: Update employee bonus

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus(p\_department VARCHAR2, p\_bonus\_percentage NUMBER)

IS

BEGIN

UPDATE Employees

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

WHERE Department = p\_department;

COMMIT;

END UpdateEmployeeBonus;

-- Scenario 3: Transfer funds between accounts

CREATE OR REPLACE PROCEDURE TransferFunds(p\_from\_account\_id NUMBER, p\_to\_account\_id NUMBER, p\_amount NUMBER)

IS

v\_from\_balance NUMBER;

BEGIN

SELECT Balance

INTO v\_from\_balance

FROM Accounts

WHERE AccountID = p\_from\_account\_id;

IF v\_from\_balance < p\_amount THEN

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

END IF;

UPDATE Accounts

SET Balance = Balance - p\_amount

WHERE AccountID = p\_from\_account\_id;

UPDATE Accounts

SET Balance = Balance + p\_amount

WHERE AccountID = p\_to\_account\_id;

COMMIT;

END TransferFunds;