**Exercise 3: Stored Procedures**

**Scenario 1:** Process monthly interest for all savings accounts.

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest AS

BEGIN

UPDATE Accounts

SET Balance = Balance \* 1.01

WHERE AccountType = 'Savings';

COMMIT;

END;

/

**Scenario 2:** Implement a bonus scheme for employees based on their performance.

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus (

p\_department IN VARCHAR2,

p\_bonus\_percentage IN NUMBER

) AS

BEGIN

UPDATE Employees

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

WHERE Department = p\_department;

COMMIT;

END;

/

**Scenario 3:** Transfer funds between accounts.

CREATE OR REPLACE PROCEDURE TransferFunds (

p\_from\_account\_id IN NUMBER,

p\_to\_account\_id IN NUMBER,

p\_amount IN NUMBER

) AS

BEGIN

DECLARE

v\_balance NUMBER;

BEGIN

-- Check sufficient balance

SELECT Balance INTO v\_balance FROM Accounts WHERE AccountID = p\_from\_account\_id;

IF v\_balance < p\_amount THEN

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

END IF;

-- Transfer funds

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;

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

RAISE\_APPLICATION\_ERROR(-20002, 'Account does not exist.');

END;

END;

/