**Scenario 1: ProcessMonthlyInterest**

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest IS

BEGIN

FOR acc IN (

SELECT AccountID, Balance

FROM Accounts

WHERE AccountType = 'Savings'

) LOOP

UPDATE Accounts

SET Balance = Balance + (acc.Balance \* 0.01)

WHERE AccountID = acc.AccountID;

DBMS\_OUTPUT.PUT\_LINE('Updated AccountID ' || acc.AccountID || ': New Balance = ' || (acc.Balance + (acc.Balance \* 0.01)));

END LOOP;

COMMIT;

END;

BEGIN

ProcessMonthlyInterest;

END;

**Scenario 2: UpdateEmployeeBonus**

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus(

dept IN VARCHAR2,

bonus\_pct IN NUMBER

) IS

BEGIN

FOR emp IN (

SELECT EmployeeID, Name, Salary

FROM Employees

WHERE Department = dept

) LOOP

UPDATE Employees

SET Salary = Salary + (emp.Salary \* bonus\_pct / 100)

WHERE EmployeeID = emp.EmployeeID;

DBMS\_OUTPUT.PUT\_LINE('Updated ' || emp.Name || ': New Salary = ' || (emp.Salary + (emp.Salary \* bonus\_pct / 100)));

END LOOP;

COMMIT;

END;

BEGIN

UpdateEmployeeBonus('IT', 10);

END;

**Scenario 3: TransferFunds**

CREATE OR REPLACE PROCEDURE TransferFunds(

from\_acc IN NUMBER,

to\_acc IN NUMBER,

amount IN NUMBER

) IS

from\_balance NUMBER;

to\_balance NUMBER;

BEGIN

SELECT Balance INTO from\_balance FROM Accounts WHERE AccountID = from\_acc FOR UPDATE;

SELECT Balance INTO to\_balance FROM Accounts WHERE AccountID = to\_acc FOR UPDATE;

IF from\_balance < amount THEN

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

END IF;

UPDATE Accounts SET Balance = Balance - amount WHERE AccountID = from\_acc;

UPDATE Accounts SET Balance = Balance + amount WHERE AccountID = to\_acc;

DBMS\_OUTPUT.PUT\_LINE('Transferred ' || amount || ' from Account ' || from\_acc || ' to Account ' || to\_acc);

DBMS\_OUTPUT.PUT\_LINE('New From Balance: ' || (from\_balance - amount));

DBMS\_OUTPUT.PUT\_LINE('New To Balance: ' || (to\_balance + amount));

COMMIT;

END;

BEGIN

TransferFunds(2, 3, 500);

END;