Exercise 6: Cursors

**Scenario 1: Generate monthly statements for all customers.**

DECLARE

CURSOR c\_transactions IS

SELECT CustomerID, SUM(Amount) AS Total

FROM Transactions

WHERE TransactionDate BETWEEN TRUNC(SYSDATE, 'MM') AND LAST\_DAY(SYSDATE)

GROUP BY CustomerID;

BEGIN

FOR record IN c\_transactions LOOP

DBMS\_OUTPUT.PUT\_LINE('Customer ID: ' || record.CustomerID || ' - Total Transactions: ' || record.Total);

END LOOP;

END;

**Scenario 2: Apply annual fee to all accounts.**

DECLARE

CURSOR c\_accounts IS

SELECT AccountID, Balance

FROM Accounts;

BEGIN

FOR account IN c\_accounts LOOP

UPDATE Accounts

SET Balance = Balance - 50

WHERE AccountID = account.AccountID;

END LOOP;

END;

**Scenario 3: Update the interest rate for all loans based on a new policy.**

DECLARE

CURSOR c\_loans IS

SELECT LoanID, InterestRate

FROM Loans;

BEGIN

FOR loan IN c\_loans LOOP

UPDATE Loans

SET InterestRate = loan.InterestRate \* 1.05

WHERE LoanID = loan.LoanID;

END LOOP;

END;