SCENARIO 1:

DECLARE

CURSOR cur\_monthly\_transactions IS

SELECT t.TransactionID, t.AccountID, t.TransactionDate, t.Amount, t.TransactionType, c.Name

FROM Transactions t

JOIN Accounts a ON t.AccountID = a.AccountID

JOIN Customers c ON a.CustomerID = c.CustomerID

WHERE TO\_CHAR(t.TransactionDate, 'YYYY-MM') = TO\_CHAR(SYSDATE, 'YYYY-MM');

rec\_transaction cur\_monthly\_transactions%ROWTYPE;

BEGIN

OPEN cur\_monthly\_transactions;

LOOP

FETCH cur\_monthly\_transactions INTO rec\_transaction;

EXIT WHEN cur\_monthly\_transactions%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE('Customer: ' || rec\_transaction.Name);

DBMS\_OUTPUT.PUT\_LINE('Transaction ID: ' || rec\_transaction.TransactionID);

DBMS\_OUTPUT.PUT\_LINE('Date: ' || rec\_transaction.TransactionDate);

DBMS\_OUTPUT.PUT\_LINE('Amount: ' || rec\_transaction.Amount);

DBMS\_OUTPUT.PUT\_LINE('Type: ' || rec\_transaction.TransactionType);

DBMS\_OUTPUT.PUT\_LINE('-----------------------------');

END LOOP;

CLOSE cur\_monthly\_transactions;

END;

/

SCENARIO 2:

DECLARE

CURSOR cur\_accounts IS

SELECT AccountID, Balance

FROM Accounts;

rec\_account cur\_accounts%ROWTYPE;

v\_annual\_fee NUMBER := 100;

BEGIN

OPEN cur\_accounts;

LOOP

FETCH cur\_accounts INTO rec\_account;

EXIT WHEN cur\_accounts%NOTFOUND;

UPDATE Accounts

SET Balance = Balance - v\_annual\_fee,

LastModified = SYSDATE

WHERE AccountID = rec\_account.AccountID;

DBMS\_OUTPUT.PUT\_LINE('Applied annual fee to Account ID: ' || rec\_account.AccountID);

END LOOP;

CLOSE cur\_accounts;

COMMIT;

END;

/

SCENARIO – 3:

DECLARE

CURSOR cur\_loans IS

SELECT LoanID, InterestRate

FROM Loans;

rec\_loan cur\_loans%ROWTYPE;

v\_new\_interest\_rate NUMBER := 4;

BEGIN

OPEN cur\_loans;

LOOP

FETCH cur\_loans INTO rec\_loan;

EXIT WHEN cur\_loans%NOTFOUND;

UPDATE Loans

SET InterestRate = v\_new\_interest\_rate

WHERE LoanID = rec\_loan.LoanID;

DBMS\_OUTPUT.PUT\_LINE('Updated interest rate for Loan ID: ' || rec\_loan.LoanID);

END LOOP;

CLOSE cur\_loans;

COMMIT;

END;

/