Scenario 1: Generate monthly statements for all customerS

DECLARE

CURSOR GenerateMonthlyStatements IS

SELECT c.CustomerID, c.Name, t.TransactionDate, t.Amount, t.TransactionType

FROM Customers c

JOIN Transactions t ON c.CustomerID = t.CustomerID

WHERE TRUNC(t.TransactionDate, 'MM') = TRUNC(SYSTIMESTAMP, 'MM')

ORDER BY c.CustomerID, t.TransactionDate;

v\_CustomerID NUMBER;

v\_Name VARCHAR2(50);

v\_TransactionDate DATE;

v\_Amount NUMBER;

v\_TransactionType VARCHAR2(10);

v\_PreviousCustomerID NUMBER := 0;

BEGIN

OPEN GenerateMonthlyStatements;

LOOP

FETCH GenerateMonthlyStatements INTO v\_CustomerID, v\_Name, v\_TransactionDate, v\_Amount, v\_TransactionType;

EXIT WHEN GenerateMonthlyStatements%NOTFOUND;

IF v\_CustomerID != v\_PreviousCustomerID THEN

DBMS\_OUTPUT.PUT\_LINE('Statement for ' || v\_Name);

v\_PreviousCustomerID := v\_CustomerID;

END IF;

DBMS\_OUTPUT.PUT\_LINE(' ' || v\_TransactionDate || ' - ' || v\_TransactionType || ' - ' || v\_Amount);

END LOOP;

CLOSE GenerateMonthlyStatements;

END;

Scenario 2: Apply annual fee to all accounts

DECLARE

CURSOR ApplyAnnualFee IS

SELECT AccountID, Balance

FROM Accounts;

v\_AccountID NUMBER;

v\_Balance NUMBER;

v\_AnnualFee NUMBER := 50; -- assume annual fee is $50

BEGIN

OPEN ApplyAnnualFee;

LOOP

FETCH ApplyAnnualFee INTO v\_AccountID, v\_Balance;

EXIT WHEN ApplyAnnualFee%NOTFOUND;

UPDATE Accounts

SET Balance = Balance - v\_AnnualFee

WHERE AccountID = v\_AccountID;

END LOOP;

CLOSE ApplyAnnualFee;

END;

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

DECLARE

CURSOR UpdateLoanInterestRates IS

SELECT LoanID, InterestRate

FROM Loans;

v\_LoanID NUMBER;

v\_InterestRate NUMBER;

v\_NewInterestRate NUMBER := 0.05; -- assume new interest rate is 5%

BEGIN

OPEN UpdateLoanInterestRates;

LOOP

FETCH UpdateLoanInterestRates INTO v\_LoanID, v\_InterestRate;

EXIT WHEN UpdateLoanInterestRates%NOTFOUND;

UPDATE Loans

SET InterestRate = v\_NewInterestRate

WHERE LoanID = v\_LoanID;

END LOOP;

CLOSE UpdateLoanInterestRates;

END;