**Scenario 1: Generate Monthly Statements**

DECLARE

CURSOR GenerateMonthlyStatements IS

SELECT CustomerID, TransactionID, TransactionDate, Amount

FROM Transactions

WHERE EXTRACT(MONTH FROM TransactionDate) = EXTRACT(MONTH FROM SYSDATE)

AND EXTRACT(YEAR FROM TransactionDate) = EXTRACT(YEAR FROM SYSDATE);

v\_CustomerID Transactions.CustomerID%TYPE;

v\_TransactionID Transactions.TransactionID%TYPE;

v\_TransactionDate Transactions.TransactionDate%TYPE;

v\_Amount Transactions.Amount%TYPE;

BEGIN

OPEN GenerateMonthlyStatements;

LOOP

FETCH GenerateMonthlyStatements INTO v\_CustomerID, v\_TransactionID, v\_TransactionDate, v\_Amount;

EXIT WHEN GenerateMonthlyStatements%NOTFOUND;

-- Print statement or perform desired operation for each customer

DBMS\_OUTPUT.PUT\_LINE('Customer ID: ' || v\_CustomerID || ', Transaction ID: ' || v\_TransactionID || ', Date: ' || v\_TransactionDate || ', Amount: ' || v\_Amount);

END LOOP;

CLOSE GenerateMonthlyStatements;

END;

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**Scenario 2: Apply Annual Fee**

DECLARE

CURSOR ApplyAnnualFee IS

SELECT AccountID, Balance

FROM Accounts;

v\_AccountID Accounts.AccountID%TYPE;

v\_Balance Accounts.Balance%TYPE;

annual\_fee CONSTANT NUMBER := 50; -- Example annual fee amount

BEGIN

OPEN ApplyAnnualFee;

LOOP

FETCH ApplyAnnualFee INTO v\_AccountID, v\_Balance;

EXIT WHEN ApplyAnnualFee%NOTFOUND;

-- Deduct the annual fee from the balance

UPDATE Accounts

SET Balance = Balance - annual\_fee

WHERE AccountID = v\_AccountID;

DBMS\_OUTPUT.PUT\_LINE('Applied annual fee to Account ID: ' || v\_AccountID);

END LOOP;

CLOSE ApplyAnnualFee;

COMMIT; -- Ensure changes are saved

END;

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**Scenario 3: Update Loan Interest Rates**

DECLARE

CURSOR UpdateLoanInterestRates IS

SELECT LoanID, CurrentInterestRate

FROM Loans;

v\_LoanID Loans.LoanID%TYPE;

v\_CurrentInterestRate Loans.CurrentInterestRate%TYPE;

new\_interest\_rate CONSTANT NUMBER := 0.05; -- Example new interest rate

BEGIN

OPEN UpdateLoanInterestRates;

LOOP

FETCH UpdateLoanInterestRates INTO v\_LoanID, v\_CurrentInterestRate;

EXIT WHEN UpdateLoanInterestRates%NOTFOUND;

-- Update the interest rate for the loan

UPDATE Loans

SET CurrentInterestRate = new\_interest\_rate

WHERE LoanID = v\_LoanID;

DBMS\_OUTPUT.PUT\_LINE('Updated interest rate for Loan ID: ' || v\_LoanID);

END LOOP;

CLOSE UpdateLoanInterestRates;

COMMIT; -- Ensure changes are saved

END;

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