Scenario 1: GenerateMonthlyStatements - Generate Monthly Statements for All Customers

DECLARE

CURSOR c\_Transactions IS

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

FROM Customers c

JOIN Accounts a ON c.CustomerID = a.CustomerID

JOIN Transactions t ON a.AccountID = t.AccountID

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

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

v\_CustomerName Customers.Name%TYPE;

BEGIN

FOR r\_Transaction IN c\_Transactions LOOP

v\_CustomerName := r\_Transaction.Name;

DBMS\_OUTPUT.PUT\_LINE('Customer: ' || v\_CustomerName);

DBMS\_OUTPUT.PUT\_LINE('Transaction ID: ' || r\_Transaction.TransactionID);

DBMS\_OUTPUT.PUT\_LINE('Date: ' || TO\_CHAR(r\_Transaction.TransactionDate, 'YYYY-MM-DD'));

DBMS\_OUTPUT.PUT\_LINE('Amount: ' || r\_Transaction.Amount);

DBMS\_OUTPUT.PUT\_LINE('Type: ' || r\_Transaction.TransactionType);

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

END LOOP;

END;

/

Scenario 2: ApplyAnnualFee - Apply Annual Fee to All Accounts

DECLARE

CURSOR c\_Accounts IS

SELECT AccountID, Balance

FROM Accounts;

v\_AccountID Accounts.AccountID%TYPE;

v\_Balance Accounts.Balance%TYPE;

v\_AnnualFee NUMBER := 50; -- Example fee amount

BEGIN

FOR r\_Account IN c\_Accounts LOOP

v\_AccountID := r\_Account.AccountID;

v\_Balance := r\_Account.Balance;

-- Deduct the annual fee

UPDATE Accounts

SET Balance = v\_Balance - v\_AnnualFee

WHERE AccountID = v\_AccountID;

END LOOP;

COMMIT;

DBMS\_OUTPUT.PUT\_LINE('Annual fee applied to all accounts');

EXCEPTION

WHEN OTHERS THEN

ROLLBACK;

DBMS\_OUTPUT.PUT\_LINE('Error: ' || SQLERRM);

END;

/

Scenario 3: UpdateLoanInterestRates - Update Interest Rate for All Loans Based on New Policy

DECLARE

CURSOR c\_Loans IS

SELECT LoanID, InterestRate

FROM Loans;

v\_LoanID Loans.LoanID%TYPE;

v\_CurrentInterestRate Loans.InterestRate%TYPE;

v\_NewInterestRate NUMBER;

BEGIN

-- Define the new interest rate policy

v\_NewInterestRate := 6; -- Example new interest rate percentage

FOR r\_Loan IN c\_Loans LOOP

v\_LoanID := r\_Loan.LoanID;

v\_CurrentInterestRate := r\_Loan.InterestRate;

-- Update the interest rate based on the new policy

UPDATE Loans

SET InterestRate = v\_NewInterestRate

WHERE LoanID = v\_LoanID;

END LOOP;

COMMIT;

DBMS\_OUTPUT.PUT\_LINE('Interest rates updated for all loans');

EXCEPTION

WHEN OTHERS THEN

ROLLBACK;

DBMS\_OUTPUT.PUT\_LINE('Error: ' || SQLERRM);

END;

/