Scenario 1: Generate Monthly Statements for All Customers

DECLARE

CURSOR c\_transactions IS

SELECT t.transaction\_id, t.account\_id, t.transaction\_date, t.transaction\_amount

FROM transactions t

WHERE EXTRACT(MONTH FROM t.transaction\_date) = EXTRACT(MONTH FROM SYSDATE)

AND EXTRACT(YEAR FROM t.transaction\_date) = EXTRACT(YEAR FROM SYSDATE);

v\_transaction\_id transactions.transaction\_id%TYPE;

v\_account\_id transactions.account\_id%TYPE;

v\_transaction\_date transactions.transaction\_date%TYPE;

v\_transaction\_amount transactions.transaction\_amount%TYPE;

BEGIN

OPEN c\_transactions;

LOOP

FETCH c\_transactions INTO v\_transaction\_id, v\_account\_id, v\_transaction\_date, v\_transaction\_amount;

EXIT WHEN c\_transactions%NOTFOUND;

-- Print or process the transaction details

DBMS\_OUTPUT.PUT\_LINE('Transaction ID: ' || v\_transaction\_id ||

', Account ID: ' || v\_account\_id ||

', Date: ' || v\_transaction\_date ||

', Amount: ' || v\_transaction\_amount);

END LOOP;

CLOSE c\_transactions;

DBMS\_OUTPUT.PUT\_LINE('Monthly statements generated for all customers.');

END;

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Scenario 2: Apply Annual Fee to All Accounts

DECLARE

CURSOR c\_accounts IS

SELECT account\_id, balance

FROM accounts;

v\_account\_id accounts.account\_id%TYPE;

v\_balance accounts.balance%TYPE;

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

BEGIN

OPEN c\_accounts;

LOOP

FETCH c\_accounts INTO v\_account\_id, v\_balance;

EXIT WHEN c\_accounts%NOTFOUND;

-- Deduct the annual fee from the account balance

UPDATE accounts

SET balance = balance - v\_annual\_fee

WHERE account\_id = v\_account\_id;

DBMS\_OUTPUT.PUT\_LINE('Applied annual fee to account ID: ' || v\_account\_id);

END LOOP;

CLOSE c\_accounts;

COMMIT;

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

END;

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Scenario 3: Update the Interest Rate for All Loans Based on a New Policy

DECLARE

CURSOR c\_loans IS

SELECT loan\_id, interest\_rate

FROM loans;

v\_loan\_id loans.loan\_id%TYPE;

v\_interest\_rate loans.interest\_rate%TYPE;

v\_new\_interest\_rate NUMBER := 0.05; -- Example new interest rate (5%)

BEGIN

OPEN c\_loans;

LOOP

FETCH c\_loans INTO v\_loan\_id, v\_interest\_rate;

EXIT WHEN c\_loans%NOTFOUND;

-- Update the loan interest rate based on the new policy

UPDATE loans

SET interest\_rate = v\_new\_interest\_rate

WHERE loan\_id = v\_loan\_id;

DBMS\_OUTPUT.PUT\_LINE('Updated interest rate for loan ID: ' || v\_loan\_id);

END LOOP;

CLOSE c\_loans;

COMMIT;

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

END;

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