**Scenario 1: Generate Monthly Statements for All Customers**

sql

CopyEdit

DECLARE

CURSOR cur\_transactions IS

SELECT \* FROM Transactions

WHERE MONTH(TransactionDate) = MONTH(SYSDATE)

AND YEAR(TransactionDate) = YEAR(SYSDATE);

v\_account\_id NUMBER;

v\_transaction\_id NUMBER;

v\_amount NUMBER;

BEGIN

FOR rec IN cur\_transactions LOOP

v\_account\_id := rec.AccountID;

v\_transaction\_id := rec.TransactionID;

v\_amount := rec.Amount;

-- Print statement for each transaction

DBMS\_OUTPUT.PUT\_LINE('Account ID: ' || v\_account\_id || ' Transaction ID: ' || v\_transaction\_id || ' Amount: ' || v\_amount);

END LOOP;

END;

/

**Expected Output**:  
For each transaction in the current month, it prints out the transaction details.

Example (if current month is June 2025):

plaintext

CopyEdit

Account ID: 101 Transaction ID: 1 Amount: 500

Account ID: 102 Transaction ID: 2 Amount: 300

**Scenario 2: Apply Annual Fee to All Accounts**

sql

CopyEdit

DECLARE

CURSOR cur\_accounts IS

SELECT AccountID, Balance FROM Accounts;

v\_balance NUMBER;

v\_account\_id NUMBER;

BEGIN

FOR rec IN cur\_accounts LOOP

v\_account\_id := rec.AccountID;

v\_balance := rec.Balance;

-- Deduct annual maintenance fee of $50 from each account

UPDATE Accounts

SET Balance = v\_balance - 50

WHERE AccountID = v\_account\_id;

END LOOP;

COMMIT;

END;

/

**Expected Output**:  
The balance for each account will be reduced by $50.

Example:

sql

CopyEdit

SELECT AccountID, Balance FROM Accounts WHERE AccountID IN (101, 102);

Output (after applying the fee):

plaintext

CopyEdit

AccountID Balance

101 950

102 1250

**Scenario 3: Update Interest Rate for All Loans**

sql

CopyEdit

DECLARE

CURSOR cur\_loans IS

SELECT LoanID, InterestRate FROM Loans;

v\_loan\_id NUMBER;

v\_current\_rate NUMBER;

v\_new\_rate NUMBER;

BEGIN

FOR rec IN cur\_loans LOOP

v\_loan\_id := rec.LoanID;

v\_current\_rate := rec.InterestRate;

-- Example: Increase interest rate by 0.5% for all loans

v\_new\_rate := v\_current\_rate + 0.5;

-- Update the loan interest rate

UPDATE Loans

SET InterestRate = v\_new\_rate

WHERE LoanID = v\_loan\_id;

END LOOP;

COMMIT;

END;

/

**Expected Output**:  
The interest rate for each loan will be increased by 0.5%.

Example:

sql

CopyEdit

SELECT LoanID, InterestRate FROM Loans WHERE LoanID IN (1, 2);

Output (after the update):

plaintext

CopyEdit

LoanID InterestRate

1 5.5

2 6.0