• Scenario 1

```
DECLARE
  CURSOR tx cursor 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 TO CHAR(t.TransactionDate, 'MMYYYY') = TO CHAR(SYSDATE, 'MMYYYY')
    ORDER BY c.CustomerID, t.TransactionDate;
  v_cust_id Customers.CustomerID%TYPE;
  v name Customers.Name%TYPE;
  v txid Transactions.TransactionID%TYPE;
  v_date Transactions.TransactionDate%TYPE;
  v amount Transactions. Amount % TYPE;
  v_type Transactions.TransactionType%TYPE;
BEGIN
  DBMS OUTPUT.PUT LINE('--- Monthly Transaction Statements ---');
  OPEN tx_cursor;
  LOOP
    FETCH tx cursor INTO v cust id, v name, v txid, v date, v amount, v type;
    EXIT WHEN tx cursor%NOTFOUND;
    DBMS OUTPUT.PUT LINE('Customer ID: ' || v cust id || ' | Name: ' || v name);
    DBMS OUTPUT.PUT LINE(' TxID: ' || v txid || ', Date: ' || TO CHAR(v date, 'DD-MON-YYYY') || ', Type:
' || v_type || ', Amount: ' || v_amount);
  END LOOP;
  CLOSE tx_cursor;
END:
```

• Scenario 2

```
DECLARE
  CURSOR account_cursor IS
    SELECT AccountID, Balance FROM Accounts;
  v_account_id Accounts.AccountID%TYPE;
  v_balance Accounts.Balance%TYPE;
  v_fee NUMBER := 100; -- Annual maintenance fee
BEGIN
  OPEN account_cursor;
  LOOP
    FETCH account_cursor INTO v_account_id, v_balance;
    EXIT WHEN account_cursor%NOTFOUND;
    IF v_balance >= v_fee THEN
      UPDATE Accounts
      SET Balance = Balance - v_fee,
        LastModified = SYSDATE
      WHERE AccountID = v_account_id;
      DBMS\_OUTPUT\_LINE('Annual\ fee\ deducted\ from\ AccountID: ' \parallel v\_account\_id);
    ELSE
      DBMS_OUTPUT_PUT_LINE('Insufficient balance in AccountID: ' || v_account_id);
    END IF;
  END LOOP;
  CLOSE account_cursor;
  COMMIT;
END;
```

• Scenario 3

```
DECLARE
  CURSOR loan_cursor IS
    SELECT LoanID, LoanAmount, InterestRate FROM Loans;
  v_loan_id Loans.LoanID%TYPE;
  v loan amt Loans.LoanAmount%TYPE;
  v_interest Loans.InterestRate%TYPE;
BEGIN
  OPEN loan_cursor;
  LOOP
    FETCH loan_cursor INTO v_loan_id, v_loan_amt, v_interest;
    EXIT WHEN loan_cursor%NOTFOUND;
    IF v_{loan\_amt} < 10000 \text{ THEN}
      UPDATE Loans
      SET InterestRate = InterestRate + 0.5
      WHERE LoanID = v_loan_id;
    ELSE
      UPDATE Loans
      SET InterestRate = InterestRate + 1
      WHERE LoanID = v_loan_id;
    END IF;
    DBMS_OUTPUT.PUT_LINE('Updated LoanID: ' || v_loan_id || ' | New Rate: ' || TO_CHAR(v_interest +
CASE WHEN v_loan_amt < 10000 THEN 0.5 ELSE 1 END));
  END LOOP;
  CLOSE loan_cursor;
  COMMIT;
END;
```