**Exercise 1: Control Structures**

BEGIN

  FOR rec IN (

    SELECT l.LoanID

    FROM Loans l

    JOIN Customers c ON l.CustomerID = c.CustomerID

    WHERE MONTHS\_BETWEEN(SYSDATE, c.DOB)/12 > 60

  ) LOOP

    UPDATE Loans

    SET InterestRate = InterestRate - 1

    WHERE LoanID = rec.LoanID;

  END LOOP;

  DBMS\_OUTPUT.PUT\_LINE('Scenario 1: 1% discount applied to senior customers.');

END;

/

BEGIN

  FOR rec IN (

    SELECT CustomerID FROM Customers WHERE Balance > 10000

  ) LOOP

    UPDATE Customers

    SET IsVIP = 'TRUE'

    WHERE CustomerID = rec.CustomerID;

  END LOOP;

  DBMS\_OUTPUT.PUT\_LINE('Scenario 2: VIP status updated.');

END;

/

SET SERVEROUTPUT ON;

BEGIN

  FOR rec IN (

    SELECT l.LoanID, c.Name, l.EndDate

    FROM Loans l

    JOIN Customers c ON l.CustomerID = c.CustomerID

    WHERE l.EndDate BETWEEN SYSDATE AND SYSDATE + 30

  ) LOOP

    DBMS\_OUTPUT.PUT\_LINE('Reminder: Loan ID ' || rec.LoanID ||

                         ' for customer ' || rec.Name ||

                         ' is due on ' || TO\_CHAR(rec.EndDate, 'DD-MON-YYYY'));

  END LOOP;

END;

/

SELECT CustomerID, LoanAmount, InterestRate, EndDate

FROM Loans;

SELECT CustomerID, Name, Balance, IsVIP

FROM Customers;

SELECT l.LoanID, c.Name, l.EndDate

FROM Loans l

JOIN Customers c ON l.CustomerID = c.CustomerID

WHERE l.EndDate BETWEEN SYSDATE AND SYSDATE + 30;















