**Exercise 1 Control Structures**

**Scenario 1 : Apply 1% Discount to Interest Rates for Customers Above 60 Years Old**

BEGIN

FOR rec IN (

SELECT l.LoanID, l.InterestRate, c.DOB

FROM Loans l

JOIN Customers c ON l.CustomerID = c.CustomerID

) LOOP

IF MONTHS\_BETWEEN(SYSDATE, rec.DOB) / 12 > 60 THEN

UPDATE Loans

SET InterestRate = InterestRate - 1

WHERE LoanID = rec.LoanID;

END IF;

END LOOP;

COMMIT;

END;

**Scenario 2: Promote to VIP if Balance > 10,000**

ALTER TABLE Customers ADD IsVIP VARCHAR2(5);

BEGIN

FOR rec IN (SELECT CustomerID, Balance FROM Customers) LOOP

IF rec.Balance > 10000 THEN

UPDATE Customers

SET IsVIP = 'TRUE'

WHERE CustomerID = rec.CustomerID;

ELSE

UPDATE Customers

SET IsVIP = 'FALSE'

WHERE CustomerID = rec.CustomerID;

END IF;

END LOOP;

COMMIT;

END;

**Scenario 3: Reminders for Loans Due in Next 30 Days**

BEGIN

FOR rec IN (

SELECT l.LoanID, l.CustomerID, 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;