**Exercise 1: Control Structures**

**Scenario 1:**

DECLARE

v\_age NUMBER;

BEGIN

FOR cust IN (SELECT CustomerID, DOB FROM Customers) LOOP

v\_age := FLOOR(MONTHS\_BETWEEN(SYSDATE, cust.DOB) / 12);

IF v\_age > 60 THEN

UPDATE Loans

SET InterestRate = InterestRate - 1

WHERE CustomerID = cust.CustomerID;

END IF;

END LOOP;

COMMIT;

END;

/

**Scenario 2:**

**Step 1 -**

ALTER TABLE Customers ADD IsVIP CHAR(1);

**Step 2 -**

BEGIN

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

IF cust.Balance > 10000 THEN

UPDATE Customers

SET IsVIP = 'T'

WHERE CustomerID = cust.CustomerID;

ELSE

UPDATE Customers

SET IsVIP = 'F'

WHERE CustomerID = cust.CustomerID;

END IF;

END LOOP;

COMMIT;

END;

/

**Scenario 3:**

DECLARE

v\_name Customers.Name%TYPE;

BEGIN

FOR loan IN (

SELECT CustomerID, EndDate

FROM Loans

WHERE EndDate <= SYSDATE + 30

) LOOP

SELECT Name INTO v\_name

FROM Customers

WHERE CustomerID = loan.CustomerID;

DBMS\_OUTPUT.PUT\_LINE('Reminder: Loan for ' || v\_name || ' is due on ' || TO\_CHAR(loan.EndDate, 'YYYY-MM-DD'));

END LOOP;

END; /