**Exercise 1: Control Structures**

**Scenario 3:**

**Code:** (Respected Sir/Mam, I have added comment lines for readability)

***-- Creating Customers Table***

CREATE TABLE Customers (

CustomerID NUMBER PRIMARY KEY,

Name VARCHAR2(100),

DOB DATE,

Balance NUMBER,

LastModified DATE

);

***-- Inserting Values into Customers Table***

BEGIN

INSERT INTO Customers VALUES (1, 'Alice Reddy', TO\_DATE('1950-05-10', 'YYYY-MM-DD'), 12000, SYSDATE);

INSERT INTO Customers VALUES (2, 'Bob Singh', TO\_DATE('1990-08-21', 'YYYY-MM-DD'), 8000, SYSDATE);

INSERT INTO Customers VALUES (3, 'Carol Mehta', TO\_DATE('1962-01-15', 'YYYY-MM-DD'), 15000, SYSDATE );

INSERT INTO Customers VALUES (4, 'David Rao', TO\_DATE('1985-12-01', 'YYYY-MM-DD'), 9500, SYSDATE);

INSERT INTO Customers VALUES (5, 'Esha Iyer', TO\_DATE('1945-03-25', 'YYYY-MM-DD'), 20000, SYSDATE);

END;

/

***-- Creating Loans Table***

CREATE TABLE Loans (

LoanID NUMBER PRIMARY KEY,

CustomerID NUMBER,

LoanAmount NUMBER,

InterestRate NUMBER,

StartDate DATE,

EndDate DATE,

FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)

);

***-- Inserting Values into Loans Table***

BEGIN

INSERT INTO Loans VALUES (1, 1, 10000, 5.0, SYSDATE - 300, SYSDATE + 10);

INSERT INTO Loans VALUES (2, 2, 15000, 6.5, SYSDATE - 200, SYSDATE + 25);

INSERT INTO Loans VALUES (3, 3, 20000, 7.0, SYSDATE - 400, SYSDATE - 5);

INSERT INTO Loans VALUES (4, 4, 12000, 5.5, SYSDATE - 100, SYSDATE + 40);

INSERT INTO Loans VALUES (5, 5, 18000, 6.0, SYSDATE - 150, SYSDATE + 30);

END;

/

***-- Fetching all loans due in the next 30 days and printing a reminder message for each customer***

BEGIN

FOR rec IN(

SELECT L.LoanID, L.EndDate, C.Name

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: Dear '|| rec.Name ||', your loan (Loan ID: ' || rec.LoanID || ') is due on ' || TO\_CHAR(rec.EndDate, 'DD-MON-YYYY') || '.');

END LOOP;

END;

/

**Output:**

A screenshot of a computer

AI-generated content may be incorrect.