**Exercise 1: Control Structures**

**Scenario 1:** The bank wants to apply a discount to loan interest rates for customers above 60 years old.

* + **Question:** Write a PL/SQL block that loops through all customers, checks their age, and if they are above 60, apply a 1% discount to their current loan interest rates.

**Scenario 2:** A customer can be promoted to VIP status based on their balance.

* + **Question:** Write a PL/SQL block that iterates through all customers and sets a flag IsVIP to TRUE for those with a balance over $10,000.

**Scenario 3:** The bank wants to send reminders to customers whose loans are due within the next 30 days.

* + **Question:** Write a PL/SQL block that fetches all loans due in the next 30 days and prints a reminder message for each customer.

**Schema to be Created**

*CREATE TABLE Customers (*

*CustomerID NUMBER PRIMARY KEY,*

*Name VARCHAR2(100),*

*DOB DATE,*

*Balance NUMBER,*

*LastModified DATE*

*);*

*CREATE TABLE Loans (*

*LoanID NUMBER PRIMARY KEY,*

*CustomerID NUMBER,*

*LoanAmount NUMBER,*

*InterestRate NUMBER,*

*StartDate DATE,*

*EndDate DATE,*

*FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)*

*);*

**Example Scripts for Sample Data Insertion**

*INSERT INTO Customers (CustomerID, Name, DOB, Balance, LastModified)*

*VALUES (1, 'John Doe', TO\_DATE('1985-05-15', 'YYYY-MM-DD'), 1000, SYSDATE);*

*INSERT INTO Customers (CustomerID, Name, DOB, Balance, LastModified)*

*VALUES (2, 'Jane Smith', TO\_DATE('1990-07-20', 'YYYY-MM-DD'), 1500, SYSDATE);*

*INSERT INTO Loans (LoanID, CustomerID, LoanAmount, InterestRate, StartDate, EndDate)*

*VALUES (1, 1, 5000, 5, SYSDATE, ADD\_MONTHS(SYSDATE, 60));*