**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.

**Scenario 1**

UPDATE Loans

SET InterestRate = InterestRate - 1

WHERE CustomerID IN (

SELECT CustomerID

FROM Customers

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

);

**Scenario 2**

ALTER TABLE Customers ADD (

IsVIP VARCHAR2(5) DEFAULT 'FALSE'

);

UPDATE Customers

SET IsVIP = 'TRUE'

WHERE Balance > 10000;

**Scenario 3**

SELECT

'Reminder: Loan ID ' || l.LoanID ||

' for customer ' || c.Name ||

' is due on ' || TO\_CHAR(l.EndDate, 'DD-MON-YYYY') AS ReminderMessage

FROM Loans l

JOIN Customers c

ON l.CustomerID = c.CustomerID

WHERE l.EndDate BETWEEN SYSDATE AND SYSDATE + 30;