**Mandatory Hands On**

**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.

BEGIN

FOR cust IN (SELECT c.CustomerID, l.LoanID, l.InterestRate

FROM Customers c

JOIN Loans l ON c.CustomerID = l.CustomerID

WHERE c.Age > 60)

LOOP

UPDATE Loans

SET InterestRate = InterestRate - 1

WHERE LoanID = cust.LoanID;

END LOOP;

COMMIT;

END;

**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.

BEGIN

FOR cust IN (SELECT CustomerID FROM Customers WHERE Balance > 10000)

LOOP

UPDATE Customers

SET IsVIP = 'Y'

WHERE CustomerID = cust.CustomerID;

END LOOP;

COMMIT;

END;

**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.

BEGIN

FOR loan IN (

SELECT c.Name, l.DueDate

FROM Loans l

JOIN Customers c ON c.CustomerID = l.CustomerID

WHERE l.DueDate BETWEEN SYSDATE AND SYSDATE + 30

)

LOOP

DBMS\_OUTPUT.PUT\_LINE('Reminder: Dear ' || loan.Name ||

', your loan is due on ' || TO\_CHAR(loan.DueDate, 'DD-MON-YYYY'));

END LOOP;

END;