**EXERCISE 1: CONTROL STRUCTURES**

-- 🚫 Remove the ALTER TABLE if IsVIP already exists

-- ALTER TABLE Customers ADD IsVIP BOOLEAN DEFAULT FALSE;

-- Scenario 1: Apply 1% discount to loan interest rates for customers above 60

DELIMITER //

CREATE PROCEDURE ApplyLoanDiscount()

BEGIN

DECLARE done INT DEFAULT FALSE;

DECLARE cust\_id INT;

DECLARE dob DATE;

DECLARE cur CURSOR FOR SELECT CustomerID, DOB FROM Customers;

DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;

OPEN cur;

read\_loop: LOOP

FETCH cur INTO cust\_id, dob;

IF done THEN

LEAVE read\_loop;

END IF;

IF TIMESTAMPDIFF(YEAR, dob, CURDATE()) > 60 THEN

UPDATE Loans

SET InterestRate = InterestRate - 1

WHERE CustomerID = cust\_id;

END IF;

END LOOP;

CLOSE cur;

END;

//

DELIMITER ;

-- Call procedure

CALL ApplyLoanDiscount();

-- Scenario 2: Promote VIPs

UPDATE Customers

SET IsVIP = TRUE

WHERE Balance > 10000;

-- Scenario 3: Display reminders for loans due in next 30 days

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

FROM Loans L

JOIN Customers C ON L.CustomerID = C.CustomerID

WHERE L.EndDate BETWEEN CURDATE() AND DATE\_ADD(CURDATE(), INTERVAL 30 DAY);

**OUTPUT:**

USE bankdb;

SELECT \* FROM Loans;

ALTER TABLE Customers ADD COLUMN IsVIP BOOLEAN DEFAULT FALSE;

SELECT \* FROM Customers WHERE IsVIP = TRUE;

CALL SendLoanReminders(); -- if you created this proc



