# Exercise 1: Control Structures

## Scenario 1: Apply 1% Discount for Senior Citizens

BEGIN  
 FOR cust\_rec IN (SELECT c.CustomerID, l.LoanID, l.InterestRate, c.DOB   
 FROM Customers c   
 JOIN Loans l ON c.CustomerID = l.CustomerID)   
 LOOP  
 IF MONTHS\_BETWEEN(SYSDATE, cust\_rec.DOB) / 12 > 60 THEN  
 UPDATE Loans  
 SET InterestRate = InterestRate - 1  
 WHERE LoanID = cust\_rec.LoanID;  
 END IF;  
 END LOOP;  
 COMMIT;  
END;  
/

## Scenario 2: Promote Customers to VIP

ALTER TABLE Customers ADD IsVIP CHAR(1);  
  
BEGIN  
 FOR cust\_rec IN (SELECT CustomerID, Balance FROM Customers) LOOP  
 IF cust\_rec.Balance > 10000 THEN  
 UPDATE Customers  
 SET IsVIP = 'Y'  
 WHERE CustomerID = cust\_rec.CustomerID;  
 END IF;  
 END LOOP;  
 COMMIT;  
END;  
/

## Scenario 3: Loan Due Reminders

BEGIN  
 FOR loan\_rec IN (SELECT c.Name, l.EndDate   
 FROM Loans l   
 JOIN Customers c ON c.CustomerID = l.CustomerID  
 WHERE l.EndDate BETWEEN SYSDATE AND SYSDATE + 30)  
 LOOP  
 DBMS\_OUTPUT.PUT\_LINE('Reminder: Loan for ' || loan\_rec.Name || ' is due on ' || TO\_CHAR(loan\_rec.EndDate, 'DD-MON-YYYY'));  
 END LOOP;  
END;  
/

**Output:**

Reminder: Loan for John Doe is due on 29-JUL-2025