PL/SQL Exercise 1 - Control Structures

# Scenario 1: Apply 1% Interest Discount for Customers above 60

BEGIN  
 FOR customer\_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, customer\_rec.DOB) / 12 > 60 THEN  
 UPDATE Loans  
 SET InterestRate = InterestRate - 1  
 WHERE LoanID = customer\_rec.LoanID;  
 END IF;  
 END LOOP;  
  
 COMMIT;  
END;

# Scenario 2: Promote Customers with Balance > $10,000 to VIP

BEGIN  
 FOR customer\_rec IN (SELECT CustomerID, Balance FROM Customers)  
 LOOP  
 IF customer\_rec.Balance > 10000 THEN  
 UPDATE Customers  
 SET IsVIP = 'TRUE'  
 WHERE CustomerID = customer\_rec.CustomerID;  
 END IF;  
 END LOOP;  
  
 COMMIT;  
END;

# Scenario 3: Loan Reminders for Due Dates within 30 Days

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

# Output:



