### **Exercise 1: Control Structures**

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### **Scenario 1: Senior Citizen Interest Discount**

BEGIN

FOR loan\_rec IN (SELECT \* FROM Loans l JOIN Customers c ON l.CustomerID =c.CustomerID) LOOP

IF MONTHS\_BETWEEN(SYSDATE, loan\_rec.DOB)/12 > 60 THEN

UPDATE Loans

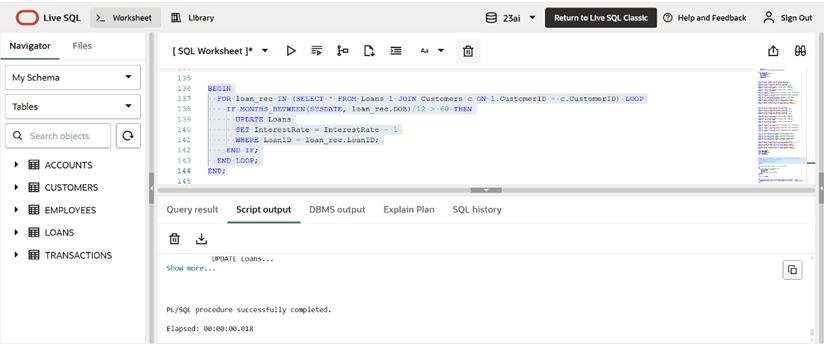
SET InterestRate = InterestRate - 1

WHERE LoanID = loan\_rec.LoanID;

END IF;

END LOOP;

END;



**Scenario 2: VIP Status Eligibility**

ALTER TABLE Customers ADD IsVIP CHAR(1); -- One-time schema update

BEGIN

FOR cust\_rec IN (SELECT \* FROM Customers) LOOP

IF cust\_rec.Balance > 10000 THEN

UPDATE Customers

SET IsVIP = 'T'

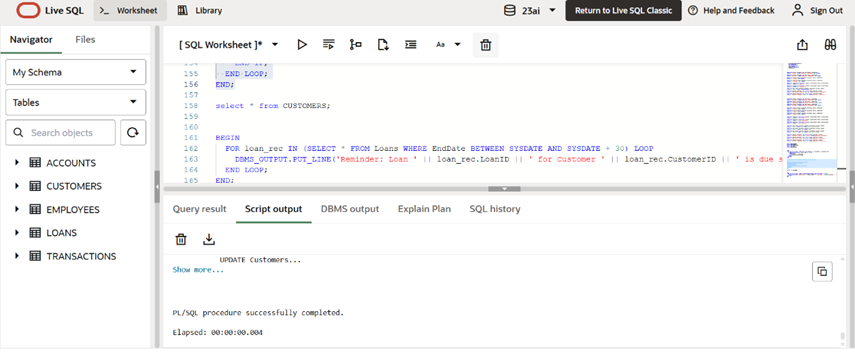
WHERE CustomerID = cust\_rec.CustomerID;

END IF;

END LOOP;

END;

select \* from CUSTOMERS;



**Scenario 3: Loan Due Reminders**

BEGIN

FOR loan\_rec IN (SELECT \* FROM Loans WHERE EndDate BETWEEN SYSDATE AND SYSDATE + 30) LOOP

DBMS\_OUTPUT.PUT\_LINE('Reminder: Loan ' || loan\_rec.LoanID || ' for Customer ' || loan\_rec.CustomerID || ' is due soon.');

END LOOP;

END;

