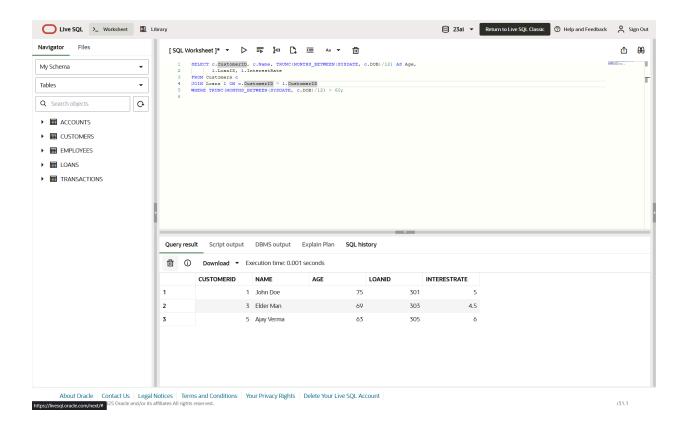
EXERCISE: 01 Control Structures

- → Scenario 1: The bank wants to apply a discount to loan interest rates for customers above 60 years old.
 - Before execution



Script

```
BEGIN

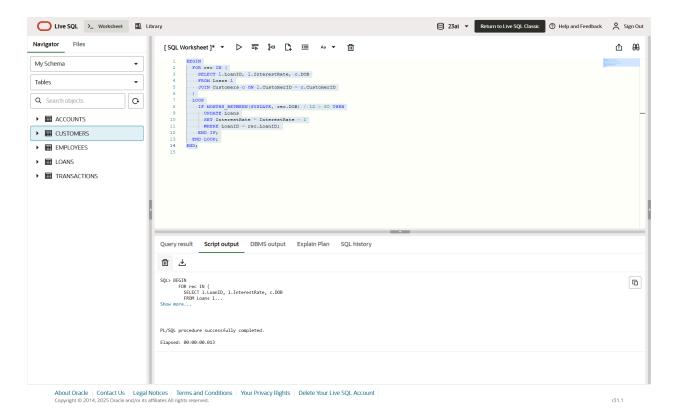
FOR rec IN (

SELECT I.LoanID, I.InterestRate, c.DOB

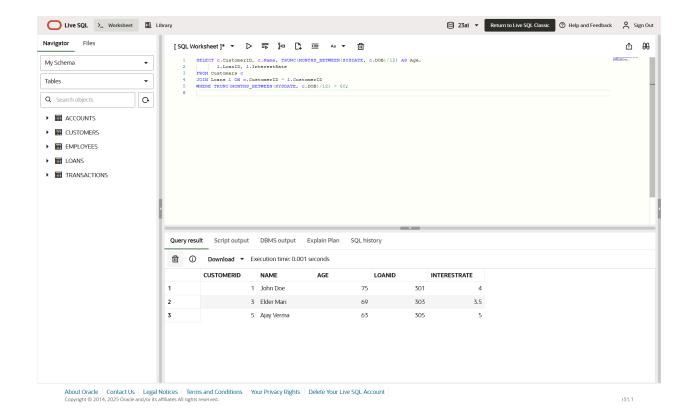
FROM Loans I

JOIN Customers c ON I.CustomerID = c.CustomerID
)
```

```
LOOP
IF MONTHS_BETWEEN(SYSDATE, rec.DOB) / 12 > 60 THEN
UPDATE Loans
SET InterestRate = InterestRate - 1
WHERE LoanID = rec.LoanID;
END IF;
END LOOP;
END;
```

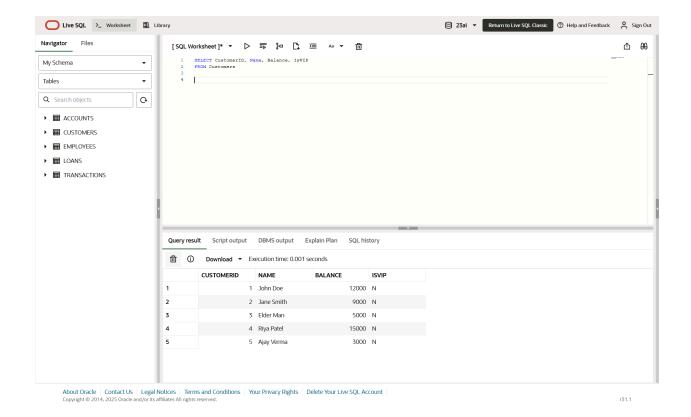


Output



→ Scenario 2: A customer can be promoted to VIP status based on their balance

· Before execution



• Script

```
BEGIN

FOR rec IN (SELECT CustomerID, Balance FROM Customers)

LOOP

IF rec.Balance > 10000 THEN

UPDATE Customers

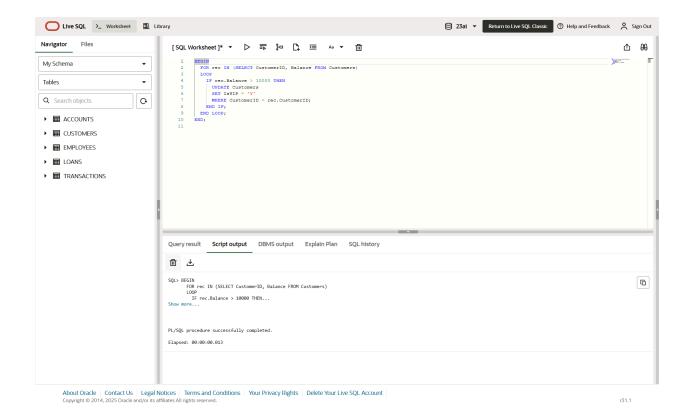
SET IsVIP = 'Y'

WHERE CustomerID = rec.CustomerID;

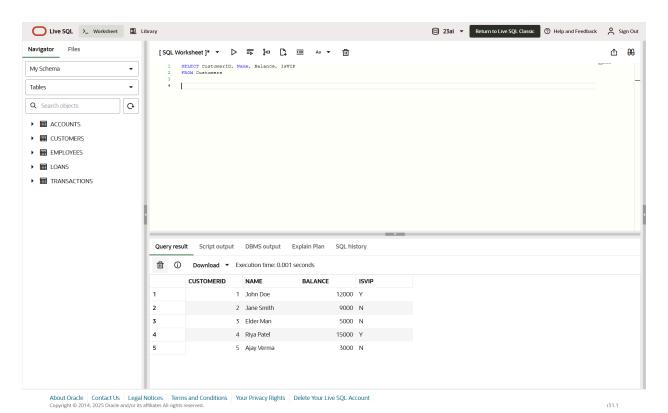
END IF;

END LOOP;

END;
```

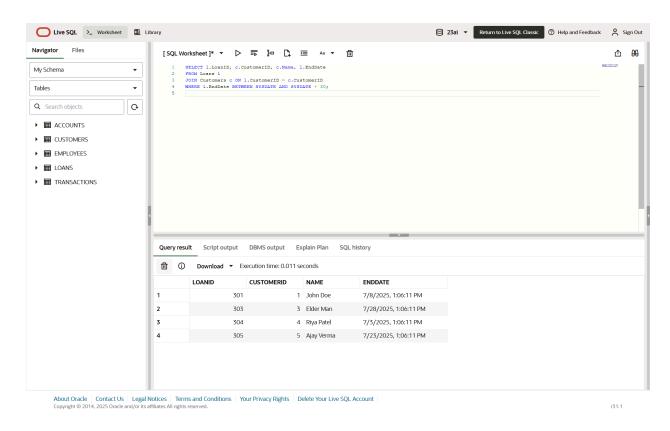


Output



→ Scenario 3:The bank wants to send reminders to customers whose loans are due within the next 30 days.\

• Before script



· Script and output

```
BEGIN

FOR rec IN (

SELECT I.LoanID, c.Name, I.EndDate

FROM Loans I

JOIN Customers c ON I.CustomerID = c.CustomerID

WHERE I.EndDate BETWEEN SYSDATE AND SYSDATE + 30
) LOOP

DBMS_OUTPUT.PUT_LINE(
```

```
'Reminder: Loan ID ' || rec.LoanID || ' for customer ' || rec.Name ||
    ' is due on ' || TO_CHAR(rec.EndDate, 'YYYY-MM-DD')
    );
    END LOOP;
END;
/
```

