**Exercise 1: Control Structures**

**Scenario 1:**

The bank wants to apply a discount to loan interest rates for customers above 60 years old.

**PL/SQL Query:**

BEGIN

FOR rec IN (

SELECT c.customer\_id, l.loan\_id, l.interest\_rate

FROM customers c

JOIN loans l ON c.customer\_id = l.customer\_id

WHERE c.age > 60

) LOOP

UPDATE loans

SET interest\_rate = interest\_rate - 1

WHERE loan\_id = rec.loan\_id;

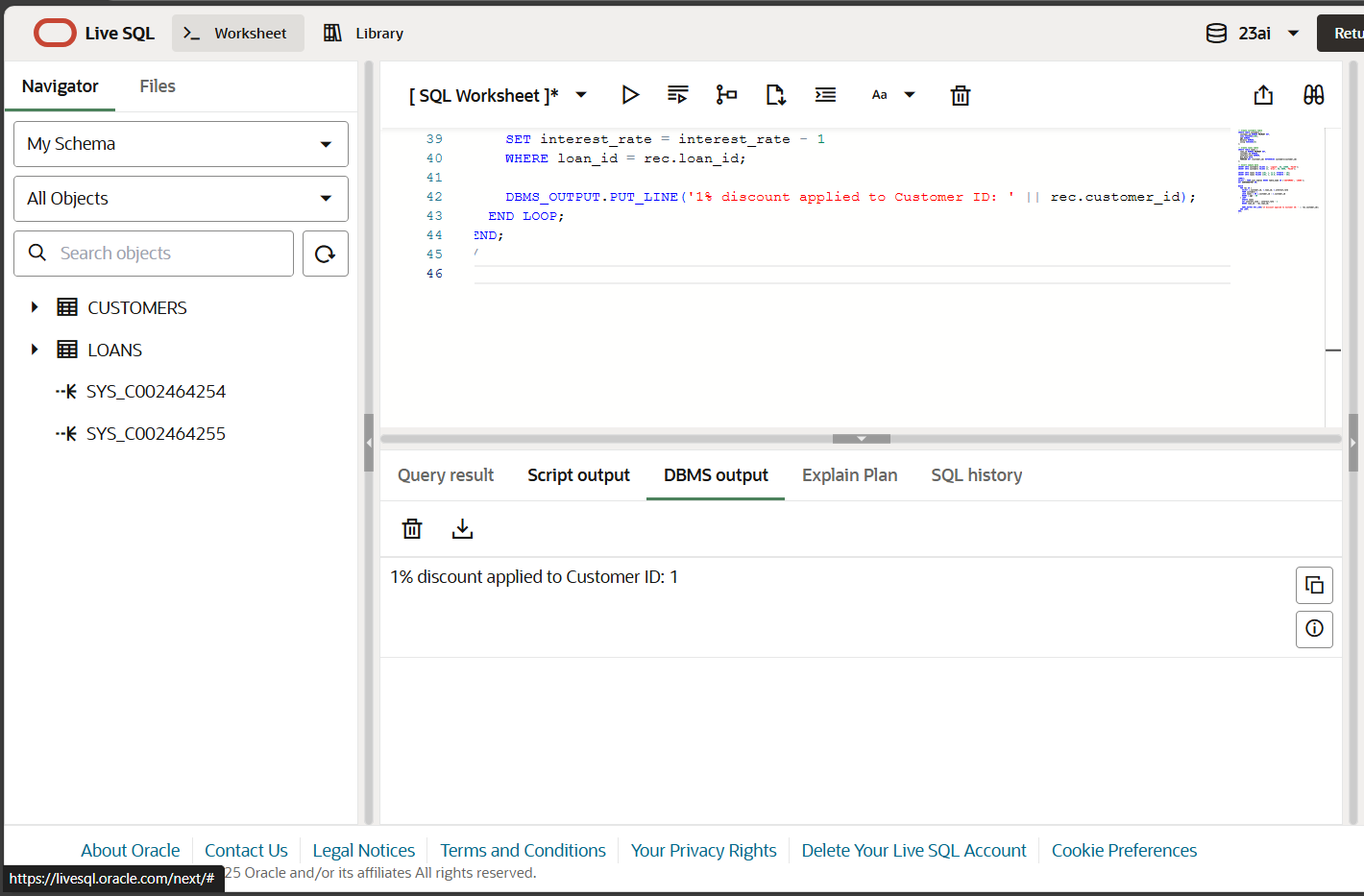
DBMS\_OUTPUT.PUT\_LINE('1% discount applied to Customer ID: ' || rec.customer\_id);

END LOOP;

END;

/

**Script Output:**

****

**Scenario 2:**

A customer can be promoted to VIP status based on their balance.

**PL/SQL Query:**

BEGIN

FOR rec IN (

SELECT customer\_id, balance

FROM customers

WHERE balance > 10000

) LOOP

UPDATE customers

SET IsVIP = 'TRUE'

WHERE customer\_id = rec.customer\_id;

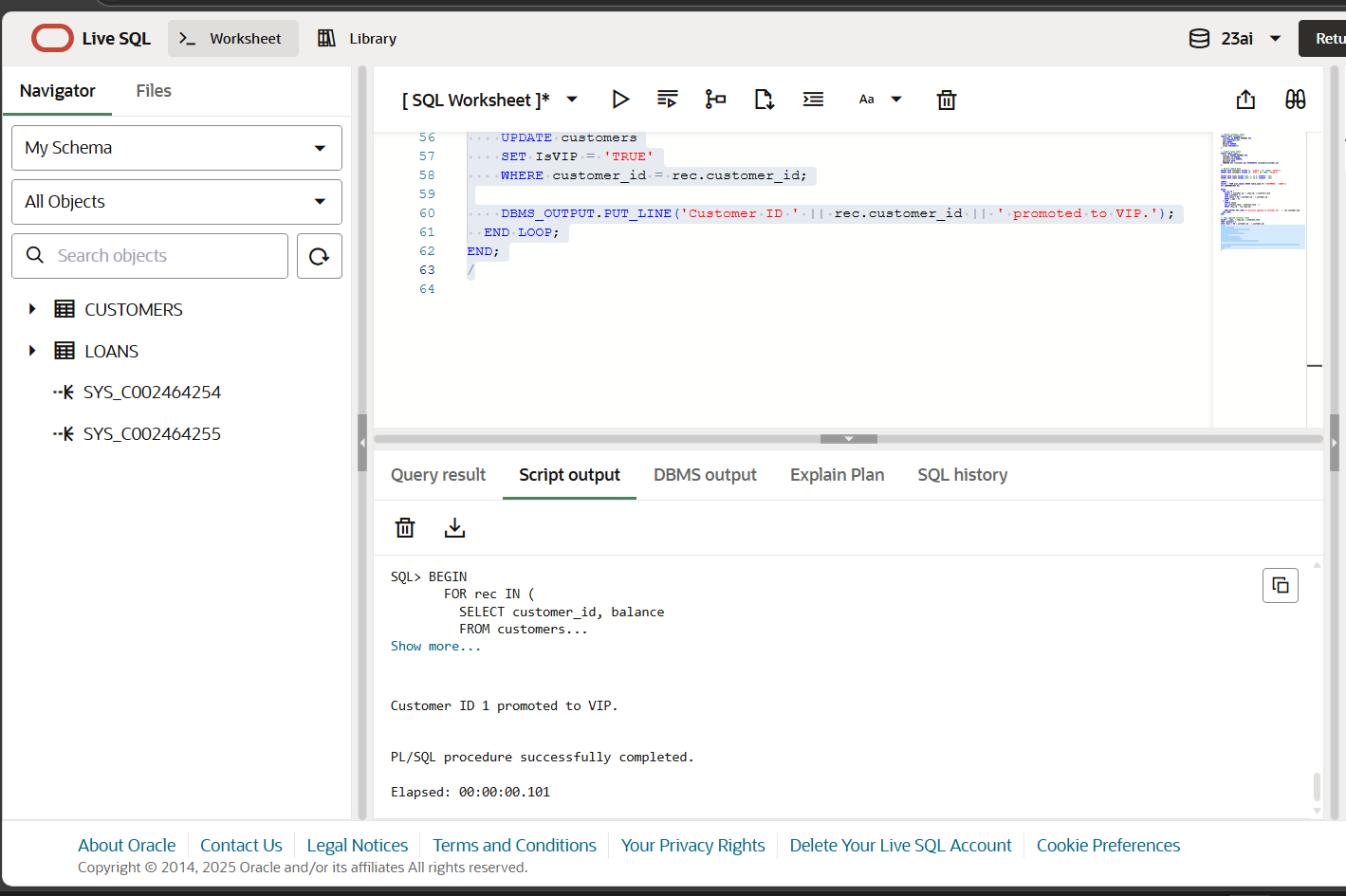
DBMS\_OUTPUT.PUT\_LINE('Customer ID ' || rec.customer\_id || ' promoted to VIP.');

END LOOP;

END;

/

**Script Output:**



**Scenario 3:**

The bank wants to send reminders to customers whose loans are due within the next 30 days.

**PL/SQL Query:**

BEGIN

FOR rec IN (

SELECT c.customer\_id, c.name, l.loan\_id, l.due\_date

FROM loans l

JOIN customers c ON l.customer\_id = c.customer\_id

WHERE l.due\_date BETWEEN SYSDATE AND SYSDATE + 30

) LOOP

DBMS\_OUTPUT.PUT\_LINE(

'Reminder: Loan ID ' || rec.loan\_id || ' for Customer ' || rec.name ||

' is due on ' || TO\_CHAR(rec.due\_date, 'DD-MON-YYYY')

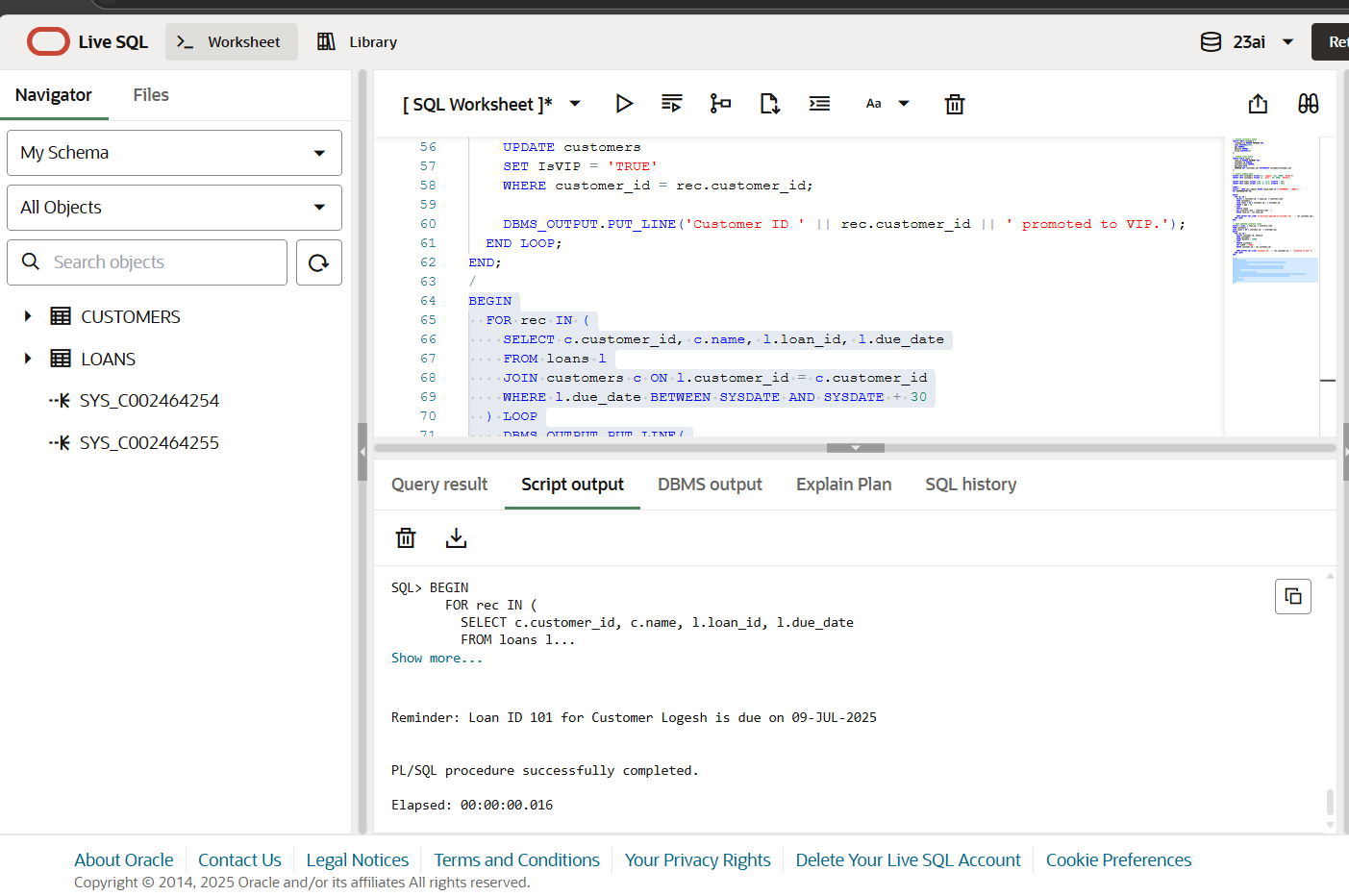
);

END LOOP;

END;

/

**Script Output:**

****