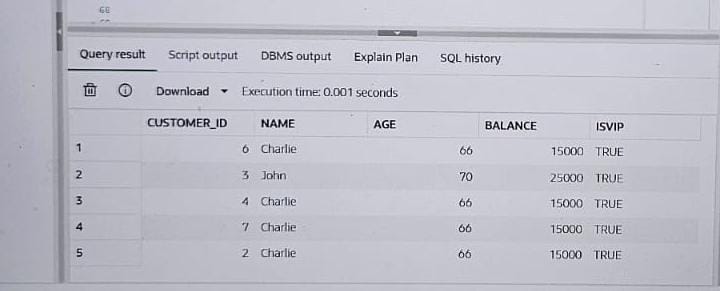
Exercise 1: Control Structures



**Scenario 1: Apply 1% Interest Discount for Senior Citizens**

BEGIN

FOR cust\_rec IN (SELECT customer\_id FROM customers WHERE age > 60) LOOP

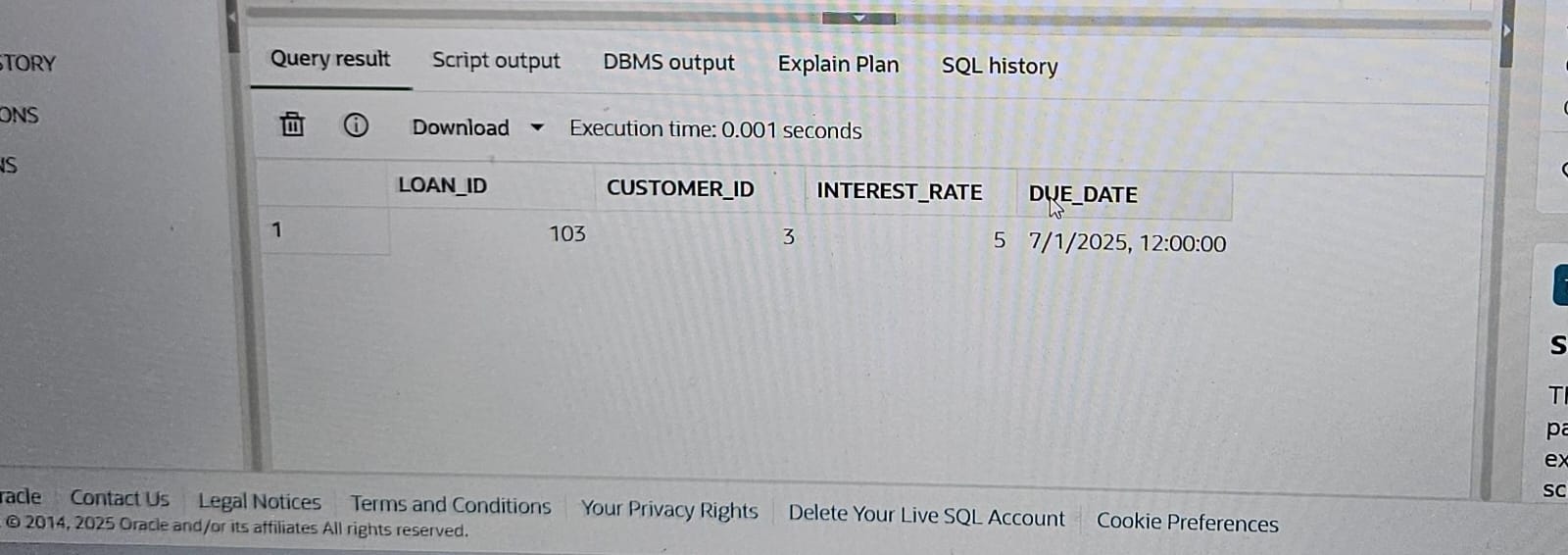
UPDATE loans

SET interest\_rate = interest\_rate - 1

WHERE customer\_id = cust\_rec.customer\_id;

END LOOP;

COMMIT;

END; 

**Scenario 2: Promote Customers to VIP Based on Balance**

BEGIN

FOR cust\_rec IN (SELECT customer\_id FROM customers WHERE balance > 10000) LOOP

UPDATE customers

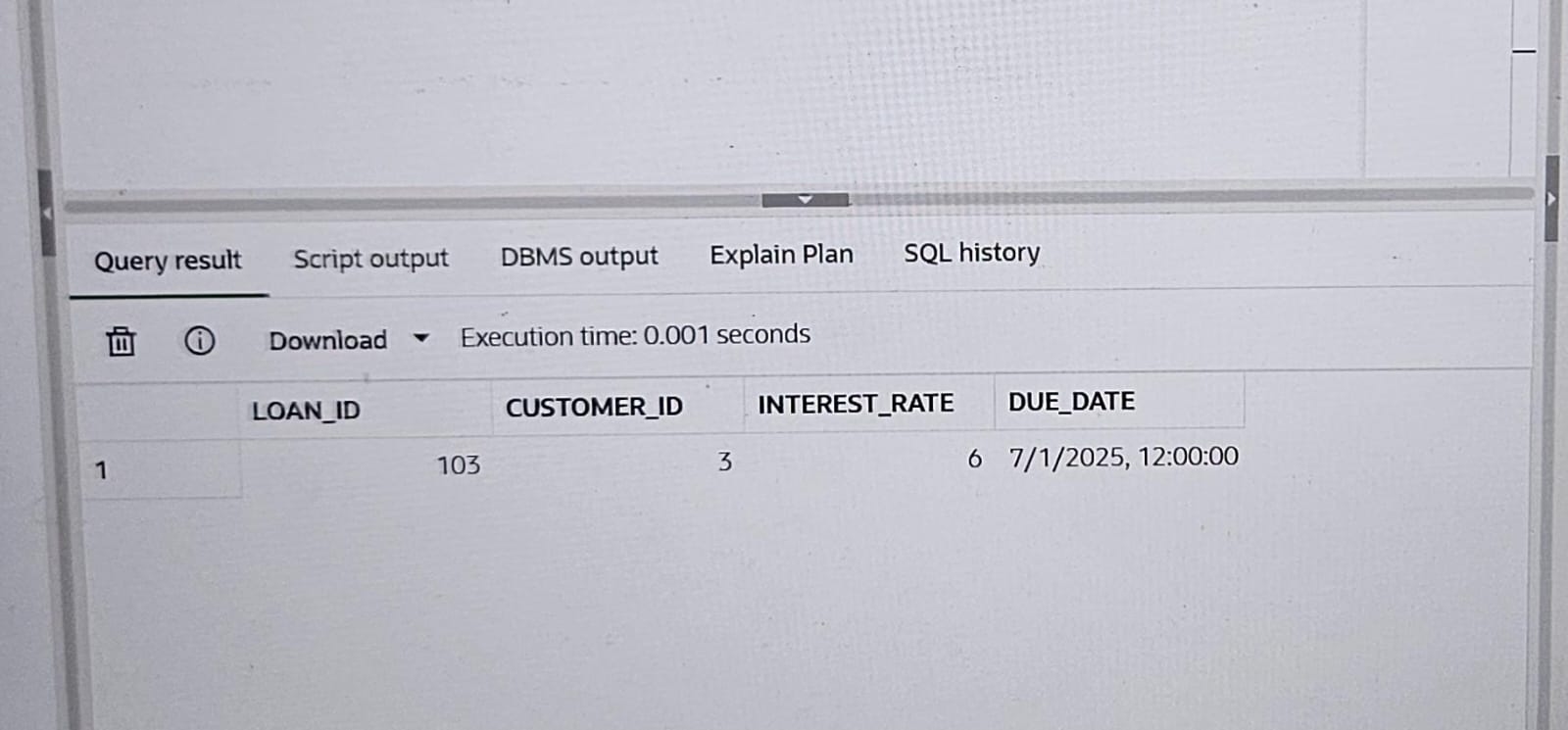
SET isvip = 'TRUE'

WHERE customer\_id = cust\_rec.customer\_id;

END LOOP;

COMMIT;

END;



**Scenario 3: Send Reminders for Loans Due in Next 30 Days**

DECLARE

v\_due\_date DATE;

v\_cust\_name VARCHAR2(100);

BEGIN

FOR loan\_rec IN (

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

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: Dear ' || loan\_rec.name || ', your loan (ID: ' || loan\_rec.loan\_id ||

') is due on ' || TO\_CHAR(loan\_rec.due\_date, 'DD-Mon-YYYY') || '.'

);

END LOOP;

END;

