**Exercise 1: Control Structures**

**Scenario 1:**

**Code:**

BEGIN

FOR rec IN (SELECT l.loan\_id, l.interest\_rate, c.age

FROM loans l

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

LOOP

IF rec.age > 60 THEN

UPDATE loans

SET interest\_rate = interest\_rate - 1

WHERE loan\_id = rec.loan\_id;

END IF;

END LOOP;

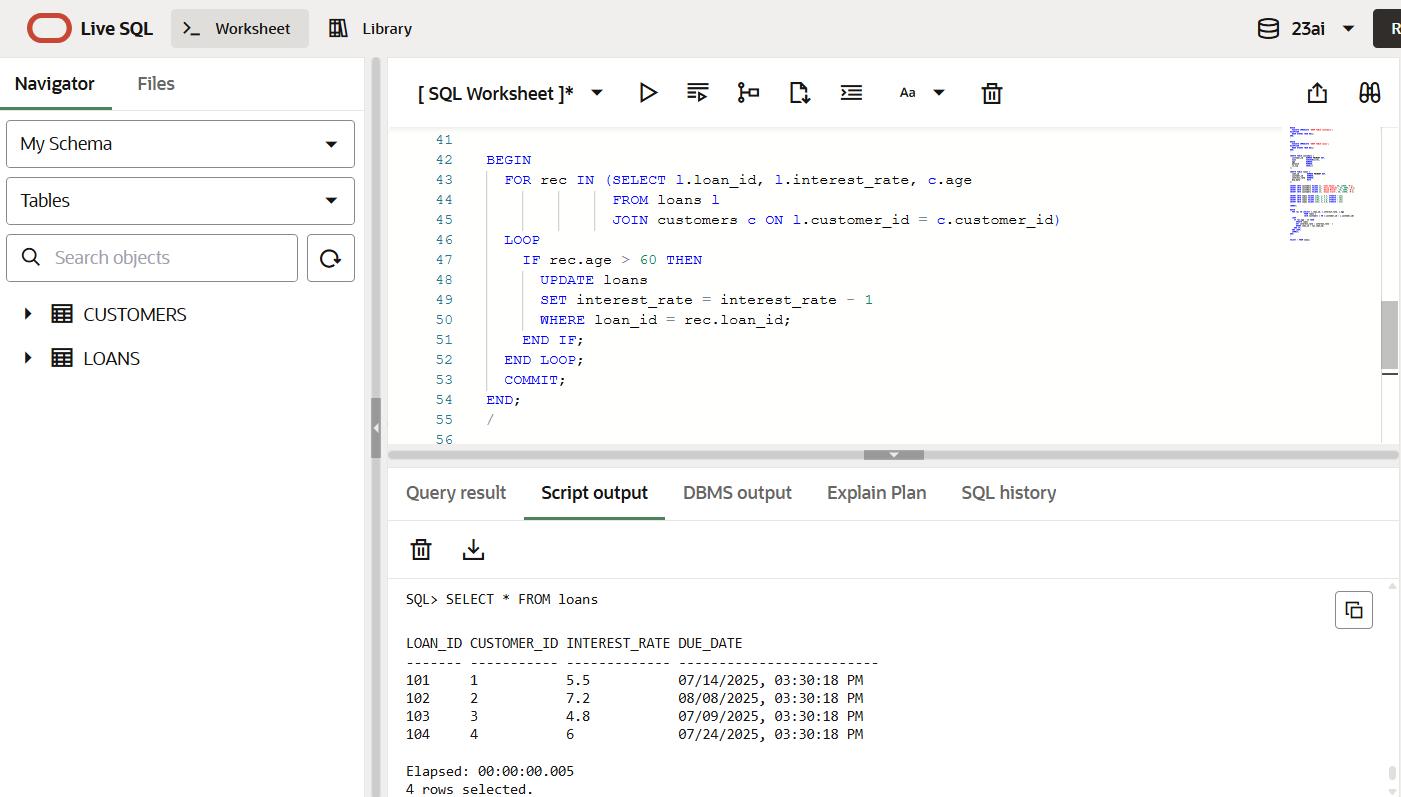
COMMIT;

END;

/

SELECT \* from loans;

**OUTPUT:**

****

**Scenario 2:**

**Code:**

BEGIN

FOR rec IN (SELECT customer\_id, balance FROM customers)

LOOP

IF rec.balance > 10000 THEN

UPDATE customers

SET is\_vip = 'Y'

WHERE customer\_id = rec.customer\_id;

END IF;

END LOOP;

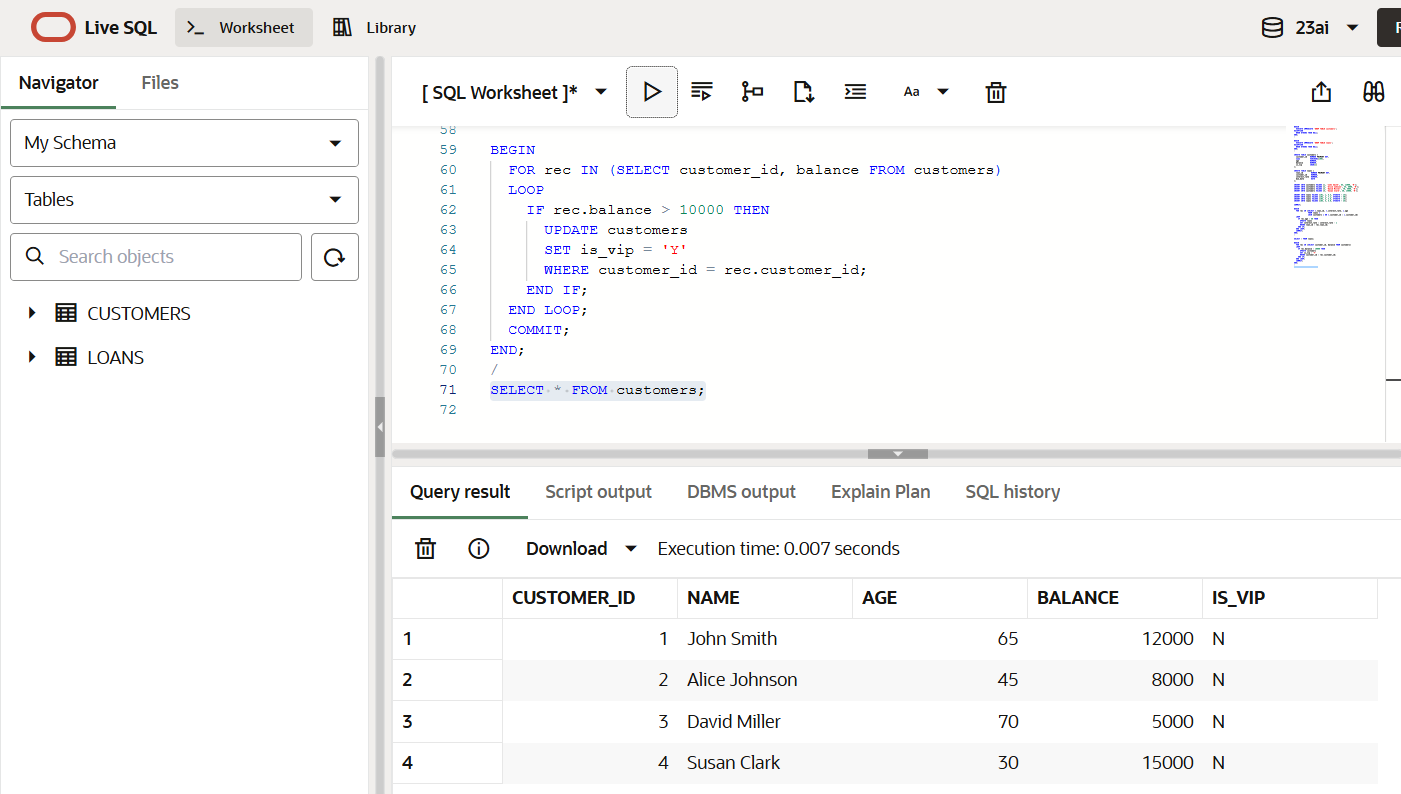
COMMIT;

END;

/

SELECT \* FROM customers

**OUTPUT:**

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**Scenario 3:**

**Code:**

BEGIN

FOR rec IN (

SELECT c.name, 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 due for ' || rec.name || ' on ' || TO\_CHAR(rec.due\_date, 'DD-MON-YYYY'));

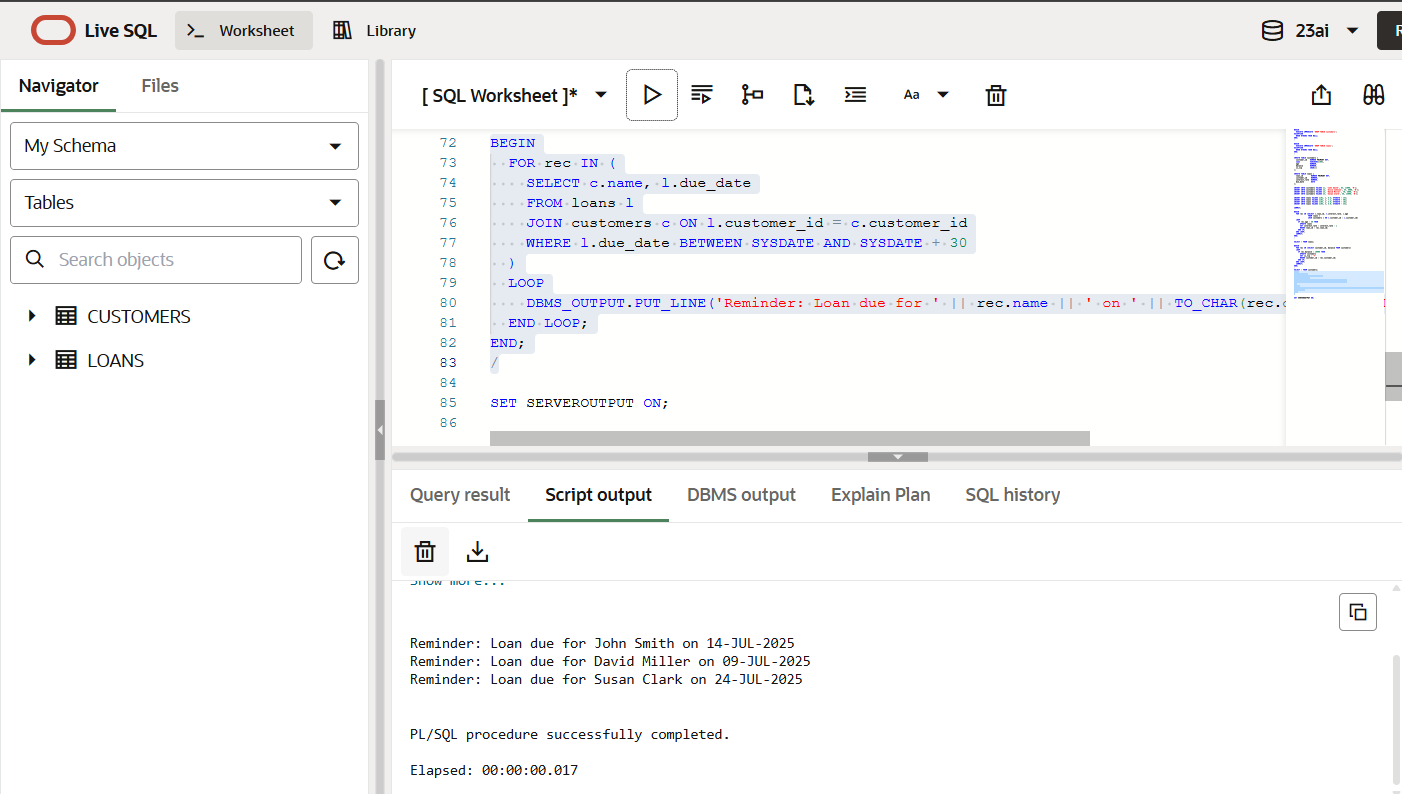
ENDc LOOP;

END;

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SET SERVEROUTPUT ON;

**OUTPUT:**

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