**Exercise 1: Control Structures**

CREATE TABLE Customers(CustomerID NUMBER,Name VARCHAR2(100),Age NUMBER,Balance NUMBER,IsVIP VARCHAR2(5),LoanInterest NUMBER,LoanDueDate DATE);

INSERT INTO Customers VALUES(1,'Arun',65,12000,'FALSE',9.5,SYSDATE+10);

INSERT INTO Customers VALUES(2,'Priya',45,9500,'FALSE',10.0,SYSDATE+35);

INSERT INTO Customers VALUES(3,'Kumar',70,15000,'FALSE',8.5,SYSDATE+5);

INSERT INTO Customers VALUES(4,'Divya',38,8000,'FALSE',11.0,SYSDATE+25);

COMMIT;

SELECT\*FROM Customers;

BEGIN

    FOR cust IN(SELECT\*FROM Customers) LOOP

        IF cust.Age>60 THEN

            UPDATE Customers

            SET LoanInterest=LoanInterest-1

            WHERE CustomerID=cust.CustomerID;

            DBMS\_OUTPUT.PUT\_LINE('1% discount applied for '||cust.Name|| ' (Age: '||cust.Age|| ')');

        END IF;

    END LOOP;

END;

BEGIN

    FOR cust IN (SELECT\*FROM Customers) LOOP

        IF cust.Balance>10000 THEN

            UPDATE Customers

            SET IsVIP='TRUE'

            WHERE CustomerID=cust.CustomerID;

            DBMS\_OUTPUT.PUT\_LINE(cust.Name|| ' promoted to VIP (Balance: $'||cust.Balance|| ')');

        END IF;

    END LOOP;

END;

BEGIN

    FOR cust IN(SELECT Name,LoanDueDate FROM Customers WHERE LoanDueDate BETWEEN SYSDATE AND SYSDATE+30)LOOP

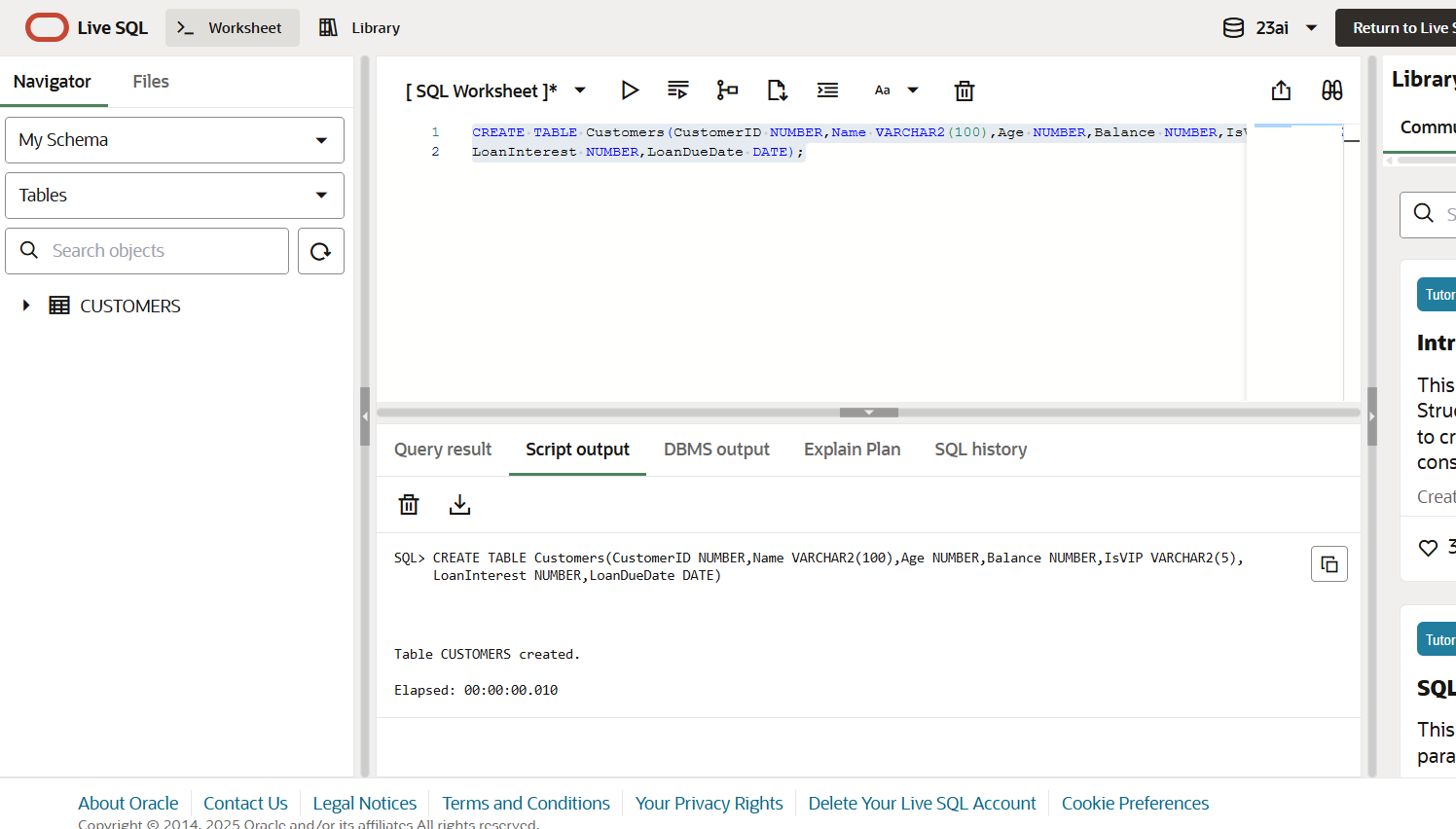
        DBMS\_OUTPUT.PUT\_LINE('Reminder: Loan due for '||cust.Name|| ' on '||TO\_CHAR(cust.LoanDueDate, 'DD-Mon-YYYY'));

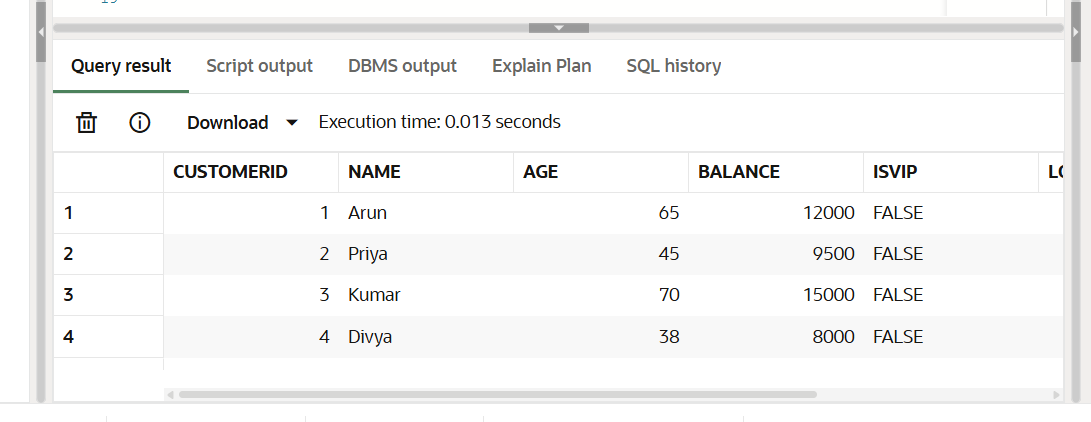
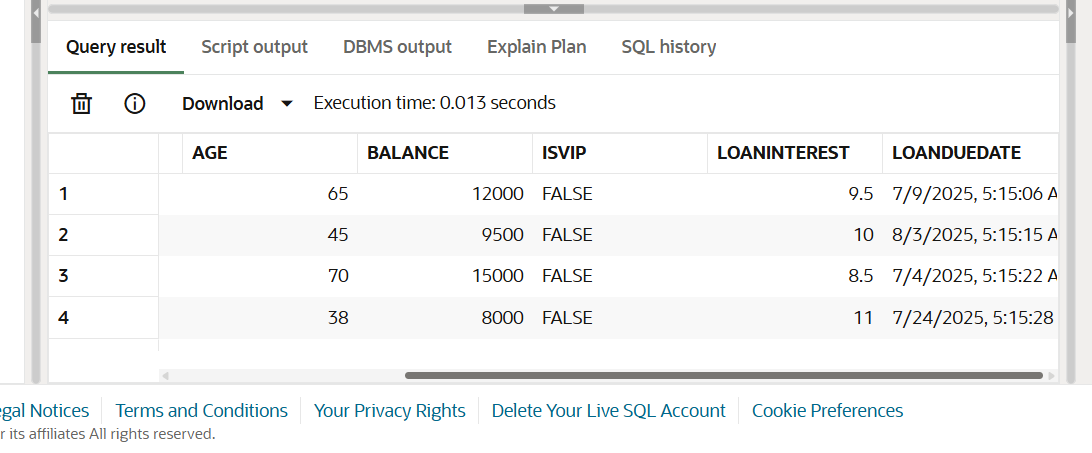
    END LOOP;

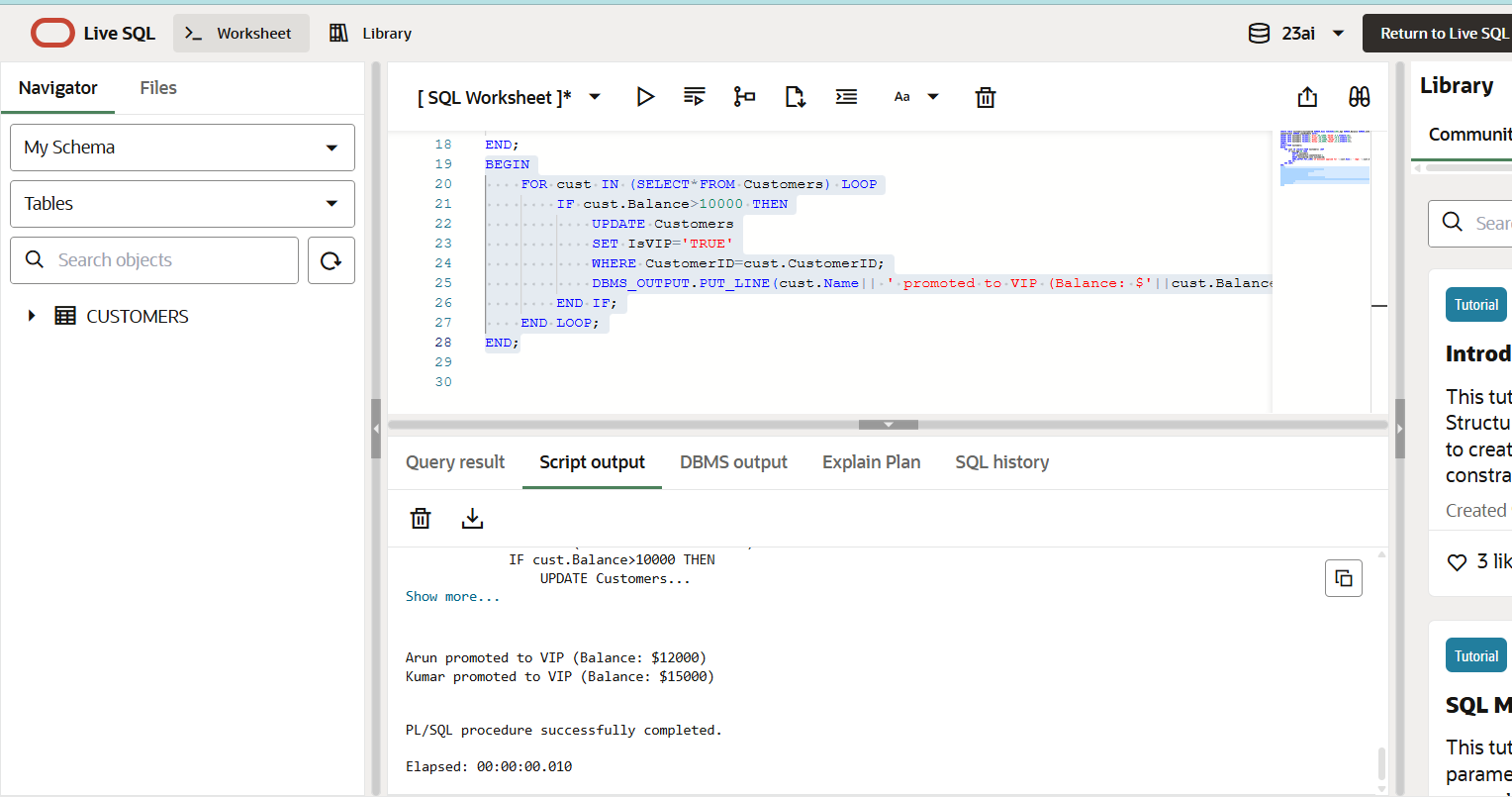
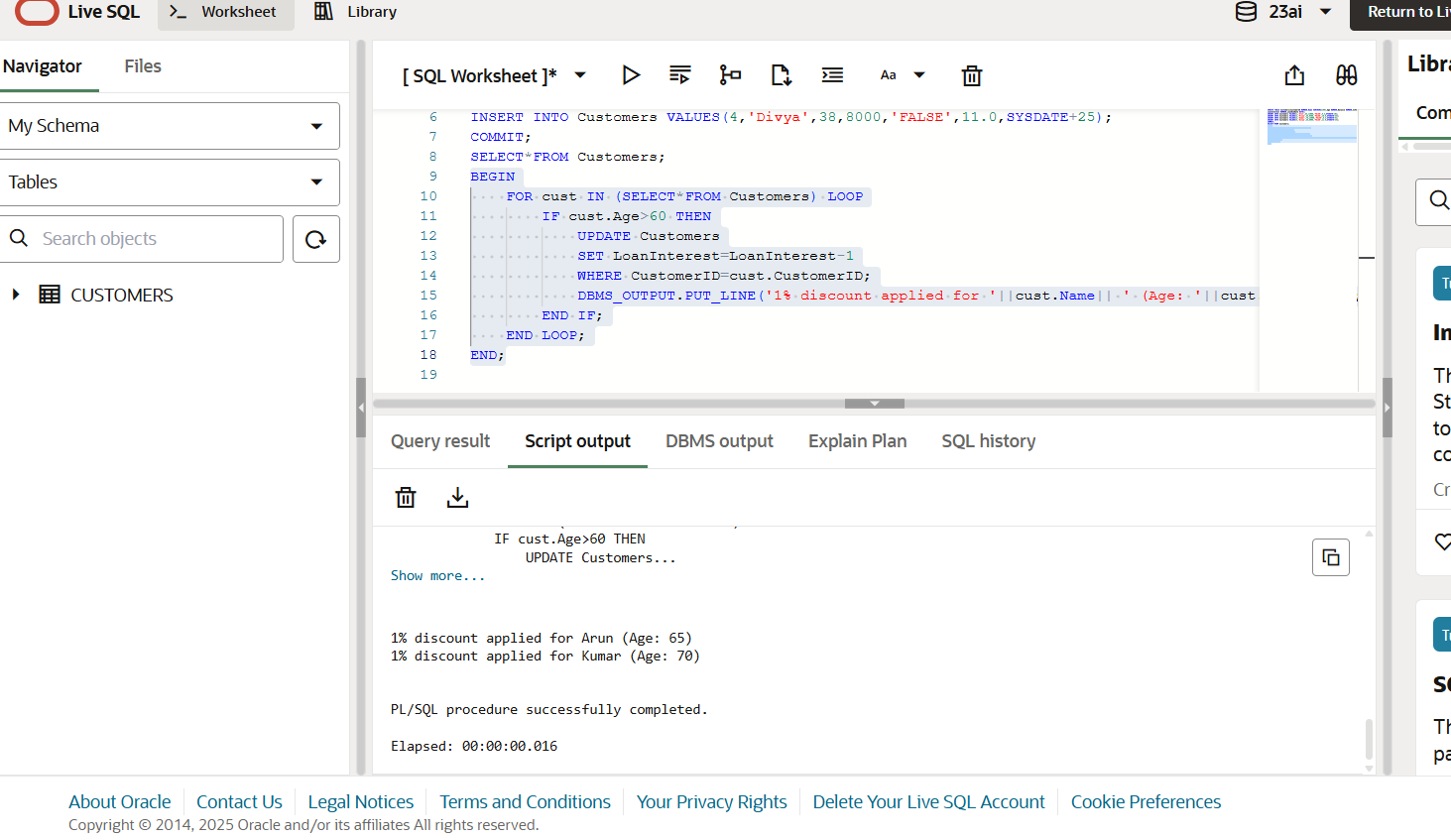
END;

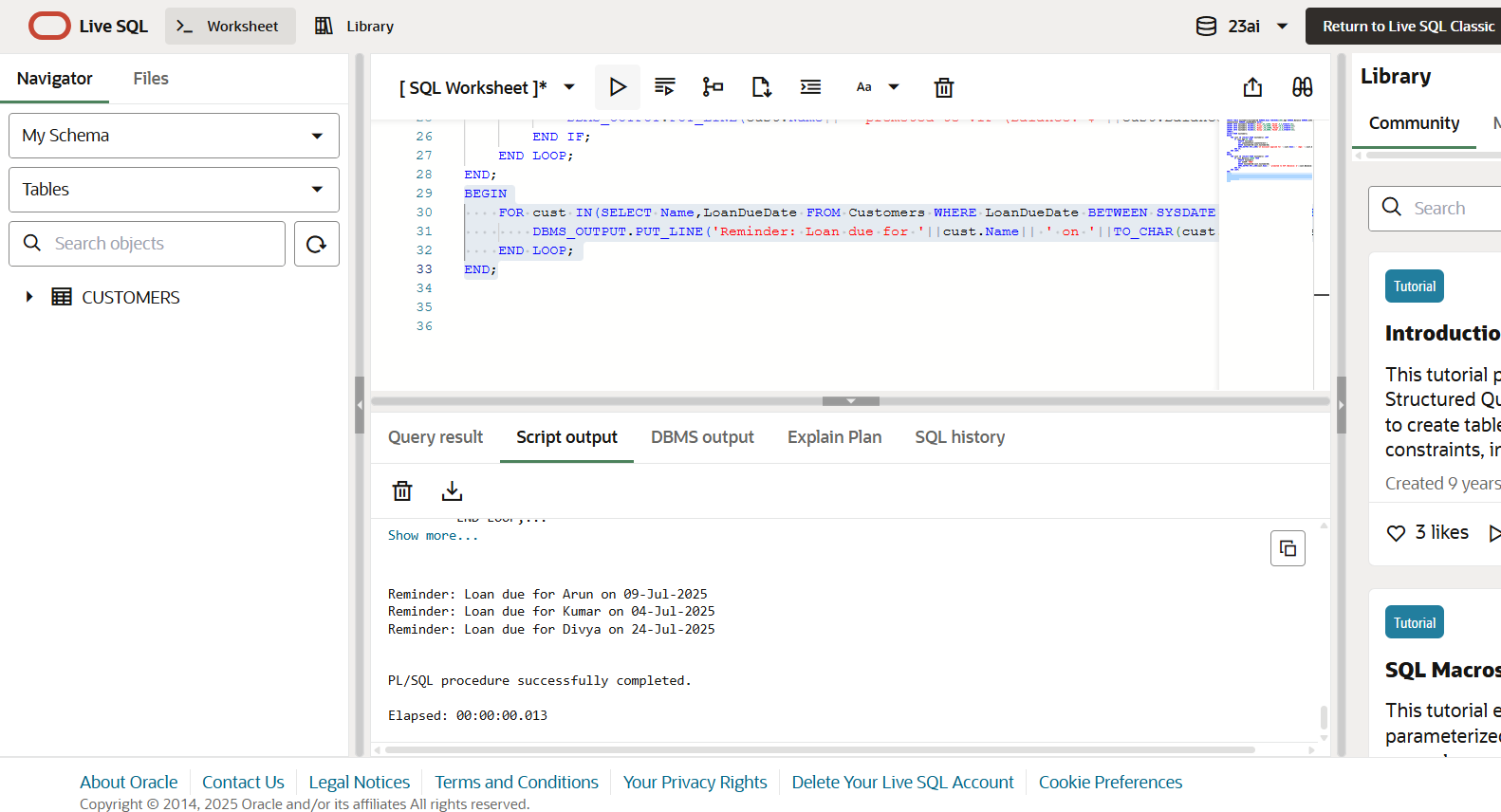
SELECT\*FROM Customers;

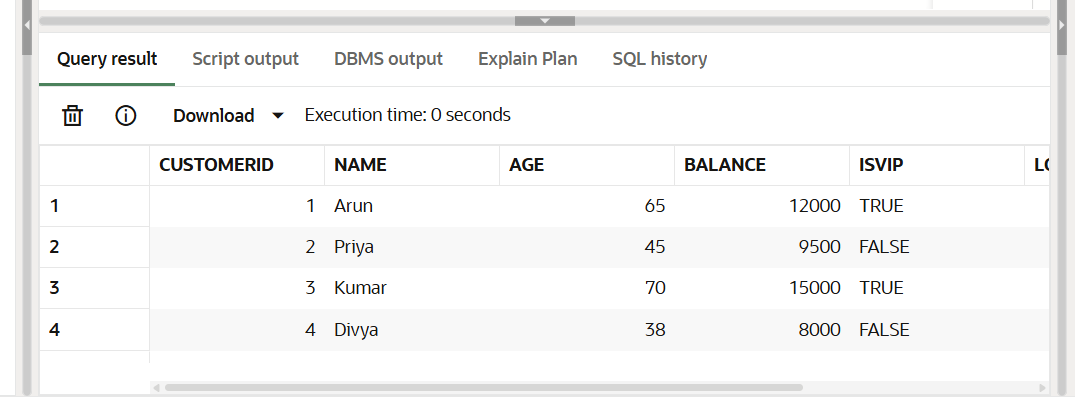
**Output:**

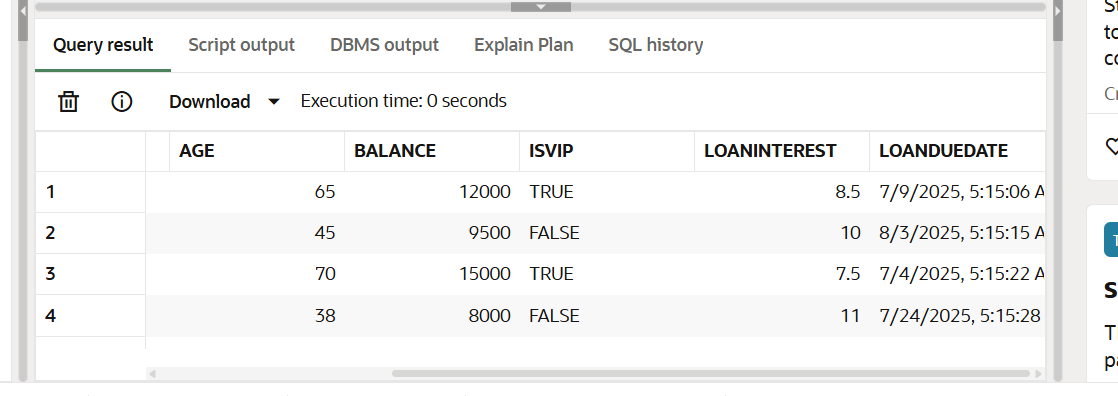
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