**Banking Platform**

**Controlled Structures**

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This PL/SQL script automates customer-based operations, including applying loan interest discounts, promoting customers to VIP status, and generating upcoming loan due reminders.

**Objective:**

* **Apply Interest Discounts:** Reduce the interest rate by 1% for customers above 60 years of age.
* **Promote VIP Status:** Identify customers with balances over ₹10,000 and update their status to VIP.
* **Send Loan Reminders:** Generate reminders for customers with loans due within the next 30 days.

**Implementation**

First Create a Table for Customers and Loans and Insert the values into it.

**Scenario 1:**

· Loop through all customers above 60

· Find their loans and apply 1% discount

BEGIN

FOR customer\_rec IN (SELECT CUSTOMER\_ID FROM CUSTOMERS WHERE AGE > 60) LOOP

UPDATE LOANS

SET INTEREST\_RATE = INTEREST\_RATE - 1

WHERE CUSTOMER\_ID = customer\_rec.CUSTOMER\_ID;

DBMS\_OUTPUT.PUT\_LINE('Interest rate discounted for customer ID: ' || customer\_rec.CUSTOMER\_ID);

END LOOP;

COMMIT;

END;

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**Scenario 2:**

· Loop through all customers

· Set ISVIP = 'Y' if balance > 10000

BEGIN

FOR customer\_rec IN (SELECT CUSTOMER\_ID, BALANCE FROM CUSTOMERS) LOOP

IF customer\_rec.BALANCE > 10000 THEN

UPDATE CUSTOMERS

SET ISVIP = 'Y'

WHERE CUSTOMER\_ID = customer\_rec.CUSTOMER\_ID;

DBMS\_OUTPUT.PUT\_LINE('Customer ' || customer\_rec.CUSTOMER\_ID || ' promoted to VIP');

END IF;

END LOOP;

COMMIT;

END;

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**Scenario 3:**

· Get today’s date + 30 days

· Loop through loans due between today and +30 days

· Print reminder for each customer

BEGIN

FOR loan\_rec IN (

SELECT L.LOAN\_ID, L.DUE\_DATE, C.NAME, C.CUSTOMER\_ID

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 ' || loan\_rec.LOAN\_ID ||

' for customer ' || loan\_rec.NAME ||

' (ID: ' || loan\_rec.CUSTOMER\_ID ||

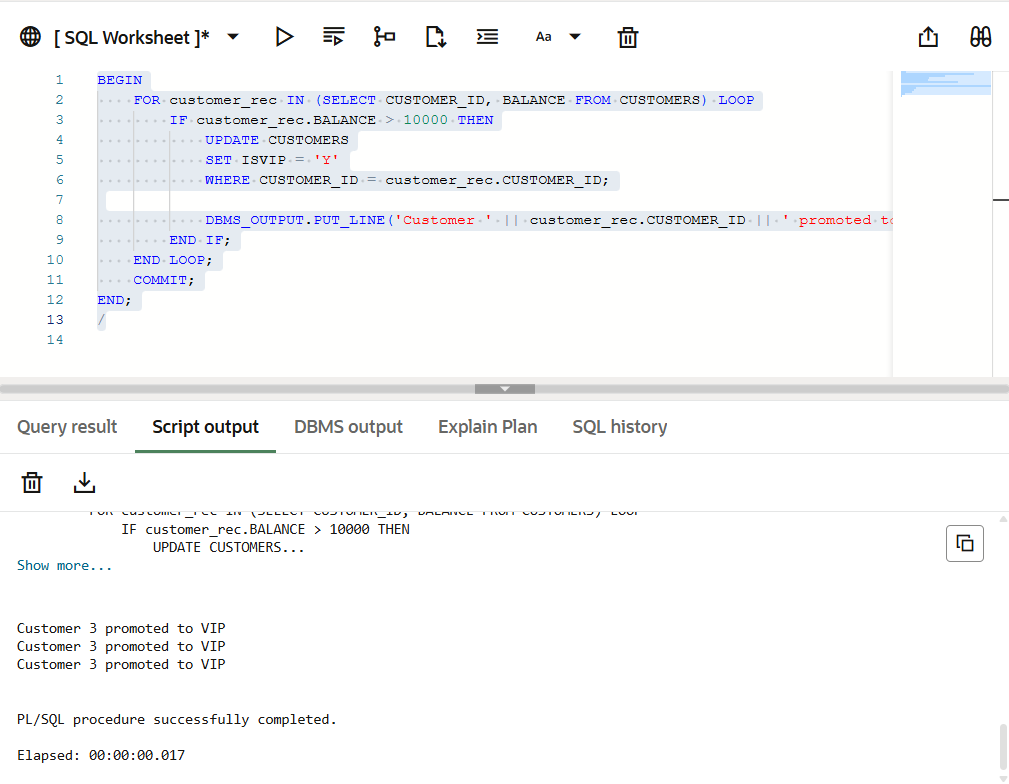
') is due on ' || TO\_CHAR(loan\_rec.DUE\_DATE, 'DD-MON-YYYY'));

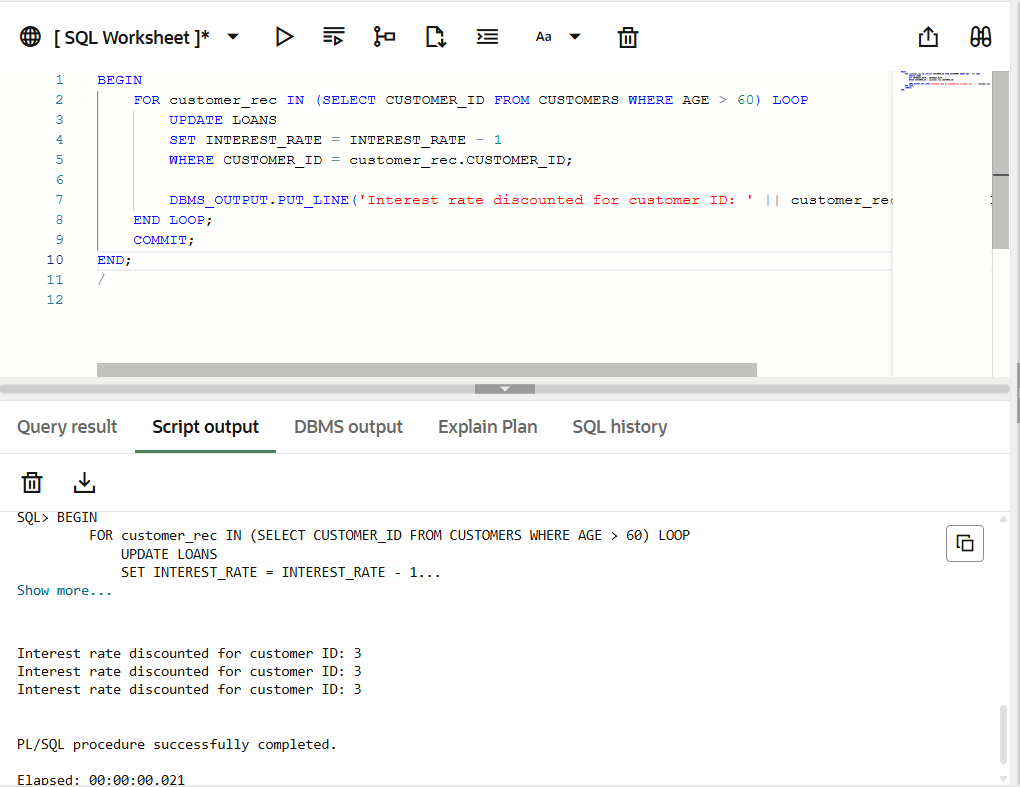
END LOOP;

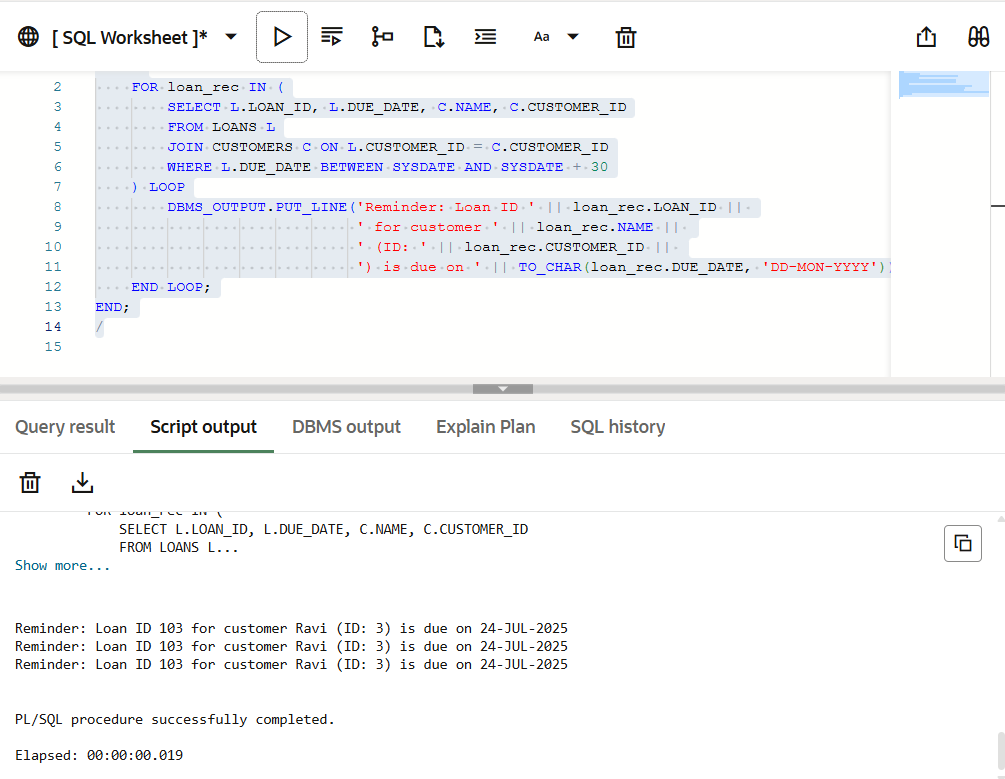
END;

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**Output:**

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