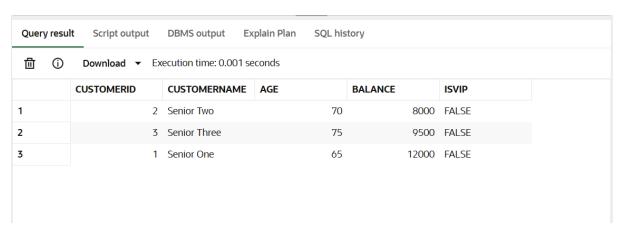
Exercise 1: Control Structures

Scenario 1:

Loan Table:

Query result Script output DBMS output Explain Plan SQL history				
☐ Obwnload ▼ Execution time: 0.002 seconds				
	LOANID	CUSTOMERID	INTERESTRATE	DUEDATE
1	101	1	10.5	7/13/2025, 4:07:16
2	102	2	11	7/18/2025, 4:07:16
3	103	3	9.5	7/3/2025, 4:07:16 P

Customer Table:



PL/SQL CODE:

BEGIN

FOR i IN (SELECT CustomerID FROM Customers WHERE Age > 60) LOOP

UPDATE Loans

SET InterestRate = InterestRate - 1

WHERE CustomerID = i.CustomerID;

END LOOP;

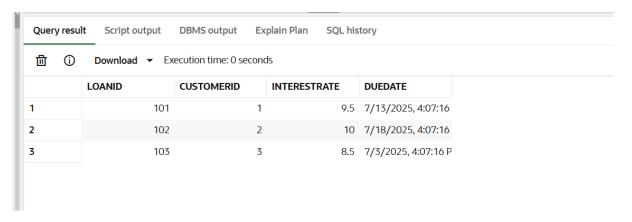
COMMIT;

END;

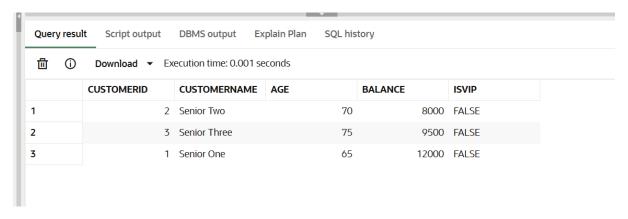
1

Output:

Loan Table

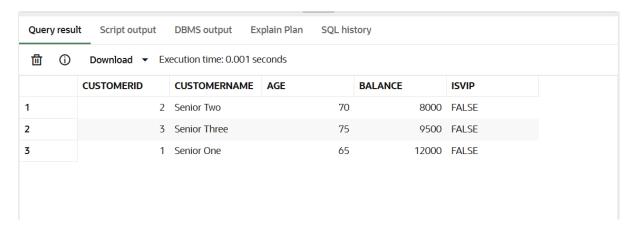


Customer Table



Scenario 2:

Customer Table:



PL/SQL CODE:

BEGIN

FOR i IN (SELECT CustomerID FROM Customers WHERE Balance > 10000) LOOP

UPDATE Customers

SET IsVIP = 'TRUE'

WHERE CustomerID = i.CustomerID;

END LOOP;

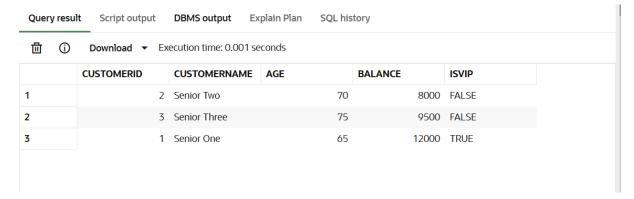
COMMIT;

END;

1

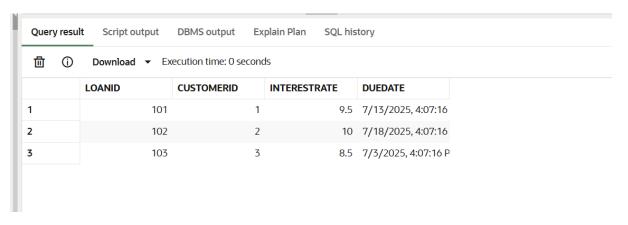
OUTPUT:

Customer Table:



Scenario 3:

Loan Table:



PL/SQL CODE:

```
BEGIN
 FOR loan_rec IN (
  SELECT I.LoanID, I.DueDate, c.CustomerName
  FROM Loans I
  JOIN Customers c ON I.CustomerID = c.CustomerID
  WHERE I.DueDate BETWEEN SYSDATE AND SYSDATE + 30
 ) LOOP
  DBMS_OUTPUT_LINE('Reminder: Dear ' || loan_rec.CustomerName ||
              ', your loan (ID: ' || loan_rec.LoanID ||
              ') is due on ' || TO_CHAR(loan_rec.DueDate, 'DD-MON-YYYY'));
 END LOOP;
END;
/
OUTPUT:
```

```
Reminder: Dear Senior One, your loan (ID: 101) is due on 13-JUL-2025
Reminder: Dear Senior Two, your loan (ID: 102) is due on 18-JUL-2025
Reminder: Dear Senior Three, your loan (ID: 103) is due on 03-JUL-2025
```

PL/SQL procedure successfully completed.

Elapsed: 00:00:00.017