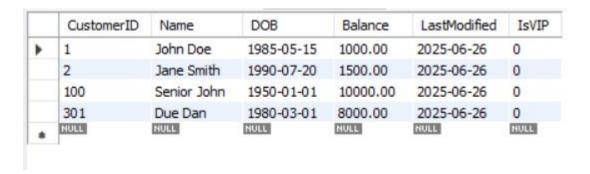
Exercise 1: Control Structures

Scenario 1: The bank wants to apply a discount to loan interest rates for customers above 60 years old. Below are the screenshots of output.

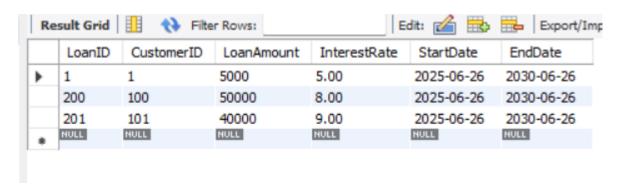
Output:

Scenario 1:

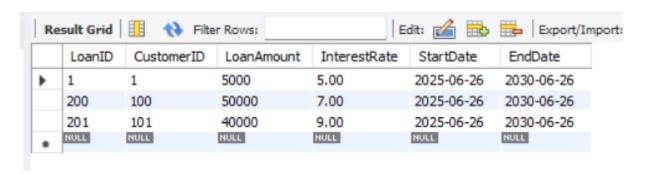
1. A Customer name "Senior Jhon" with Customer ID 100 have the age greater than 60.



2. The Interest rate with CustomerID 100 is 8% before calling the procedure.



3. The Interest rate after calling the procedure became 7% because the discount of 1% applied.



Scenario 2: A customer can be promoted to VIP status based on their balance.

Output:

4. Customer is promoted to VIP status by updating the value of IsVIP to 1 if balance is over \$10,000 using procedure in SQL. Here CustomerID 101 have balance 12,000 thus, It will get VIP status.

	CustomerID	Name	DOB	Balance	LastModified	IsVIP
•	1	John Doe	1985-05-15	1000.00	2025-06-26	0
	2	Jane Smith	1990-07-20	1500.00	2025-06-26	0
	100	Senior John	1950-01-01	10000.00	2025-06-26	0
	101	Young Jane	1995-05-01	12000.00	2025-06-26	1
	NULL	NULL	NULL	NULL	NULL	NULL

Scenario 3 : The bank wants to send reminders to customers whose loans are due within the next 30 days.

Output:

5. A procedure is implemented that fetches all loans due in the next 30 days and prints a reminder message for each customer. Here CustomerID 301 will get a message.

```
mysql> select * from loans;
 LoanID
           CustomerID | LoanAmount
                                      InterestRate
                                                      StartDate
                                                                   EndDate
                                                                   2030-06-26
                               5000
                                              5.00
                                                      2025-06-26
       1
                    1
                  100
     200
                              50000
                                              7.00
                                                      2025-06-26
                                                                   2030-06-26
     201
                  101
                              40000
                                              9.00
                                                      2025-06-26
                                                                   2030-06-26
                              20000
                                                                   2025-07-11
     301
                  301
                                              7.50
                                                      2025-06-26
4 rows in set (0.04 sec)
mysql> CALL SendLoanDueReminders();
 ReminderMessage
 Reminder: Dear Due Dan, your loan ID 301 is due on 2025-07-11
1 row in set (0.04 sec)
Query OK, 0 rows affected (0.05 sec)
```