Exercise 1: Control Structures

Scenario 1: The bank wants to apply a discount to loan interest rates for customers above 60 years old.

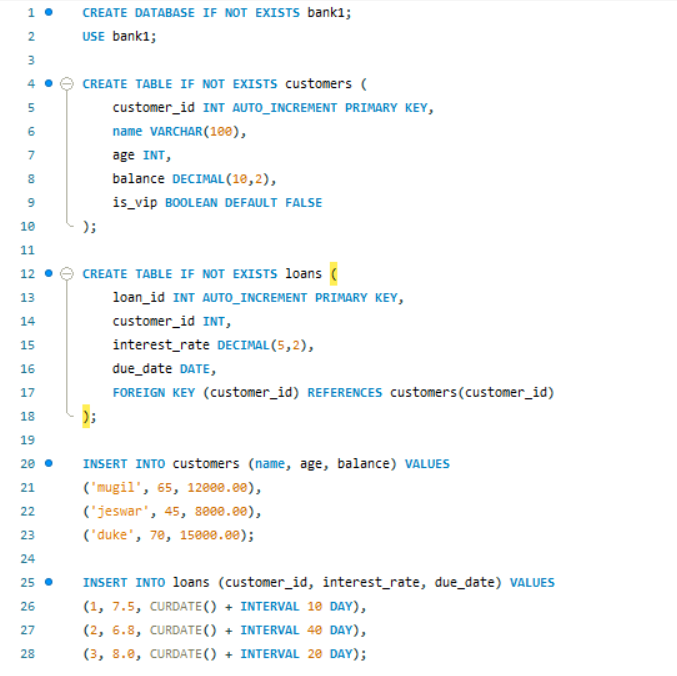
o Question: Write a PL/SQL block that loops through all customers, checks their age, and if they are above 60, apply a 1% discount to their current loan interest rates.

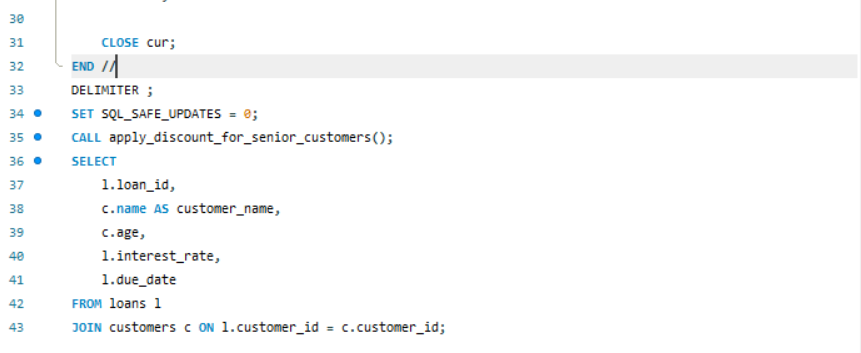
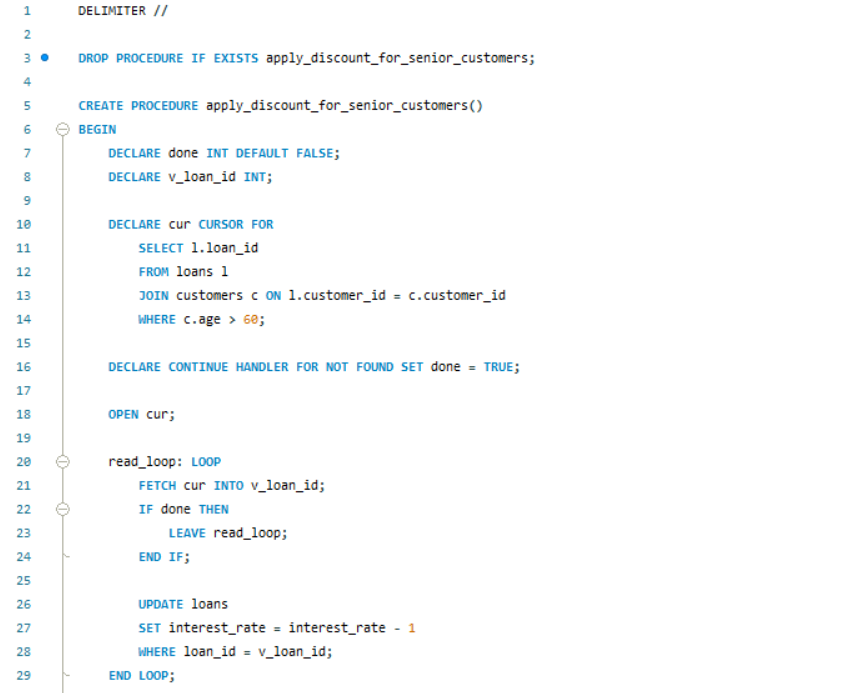
Scenario 2: A customer can be promoted to VIP status based on their balance.

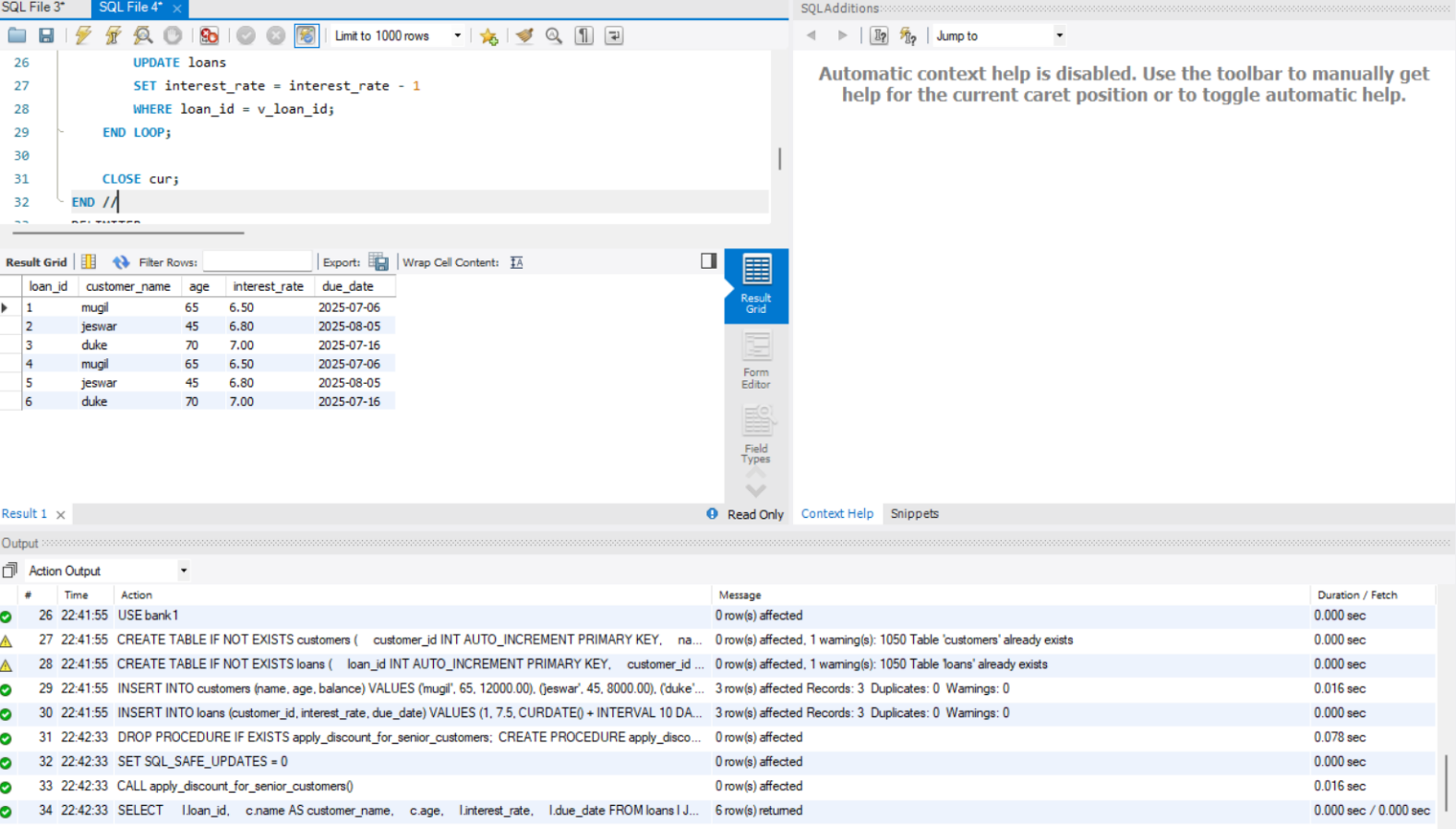
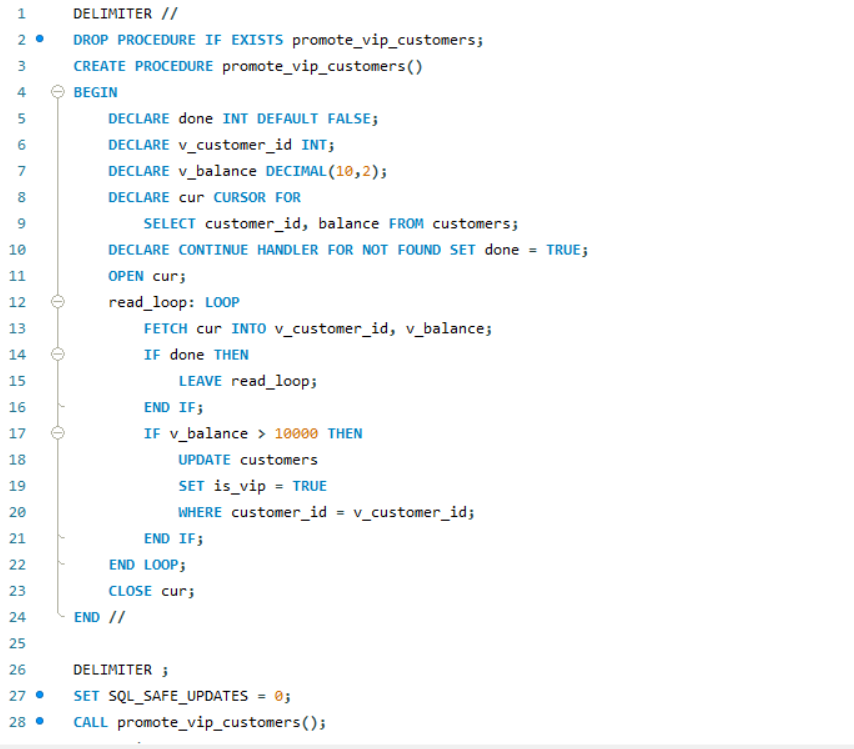
o Question: Write a PL/SQL block that iterates through all customers and sets a flag IsVIP to TRUE for those with a balance over $10,000.

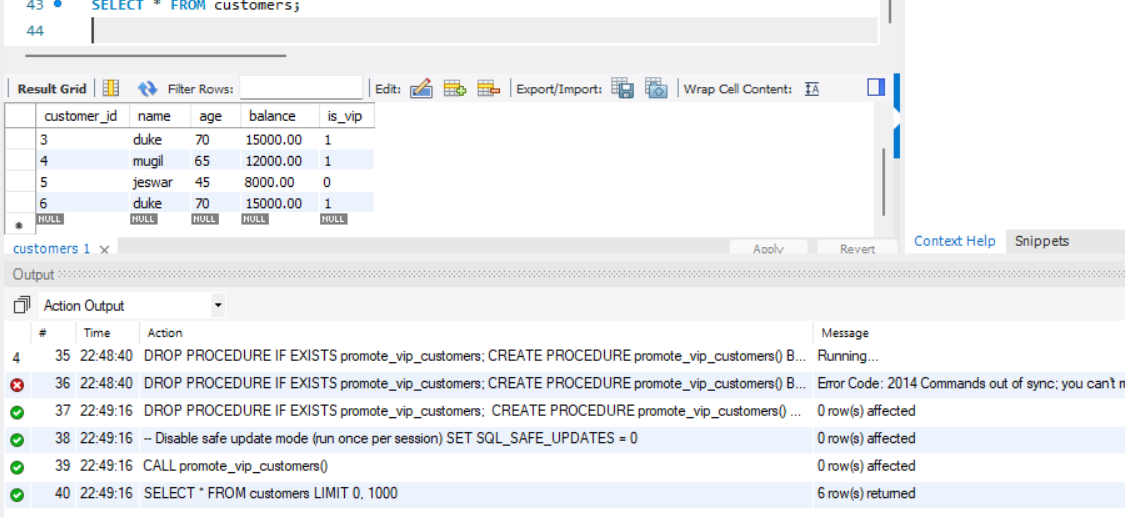
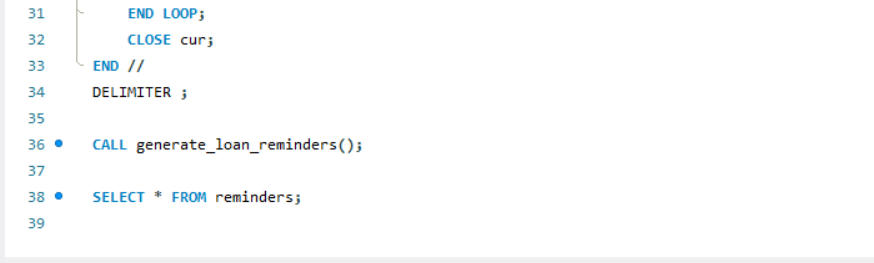
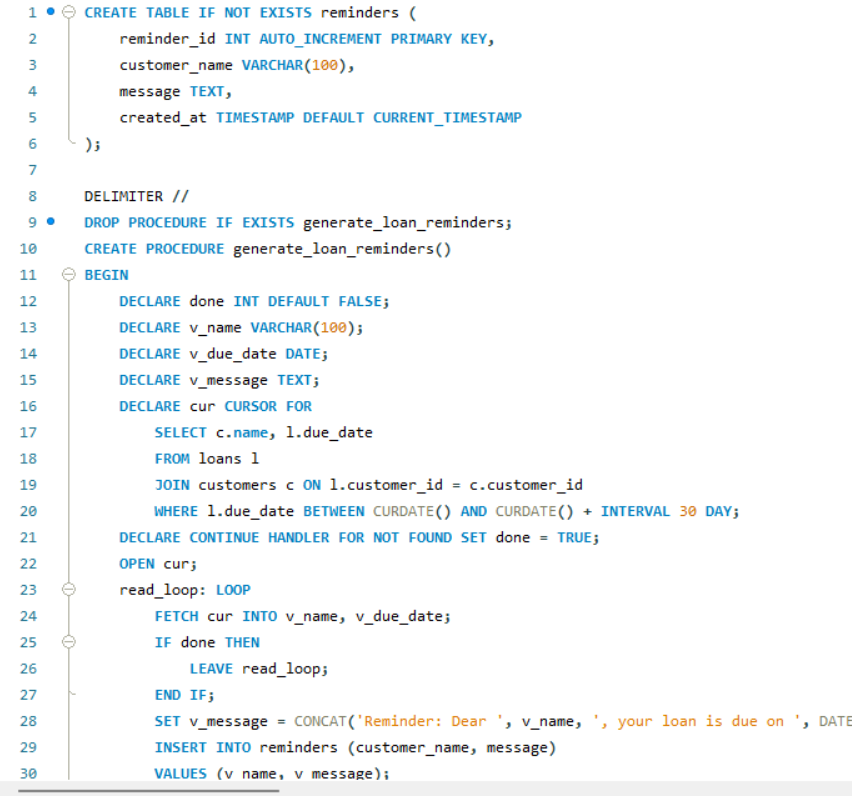
Scenario 3: The bank wants to send reminders to customers whose loans are due within the next 30 days.

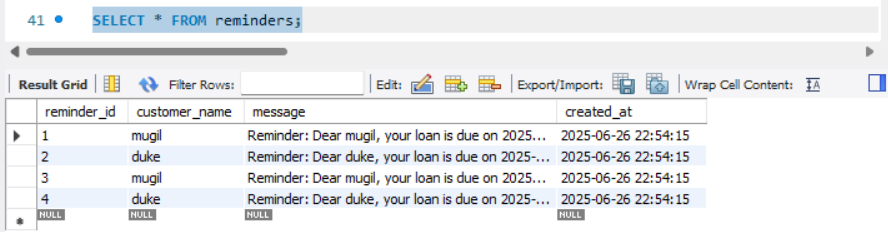
o Question: Write a PL/SQL block that fetches all loans due in the next 30 days and prints a reminder message for each customer.

Sample table:  


Scenario 1:  


Output:  
  
  
scenario2:  


Output:  
  
  
Scenario 3:  


Output:  


Exercise 3: Stored Procedures

Scenario 1: The bank needs to process monthly interest for all savings accounts.

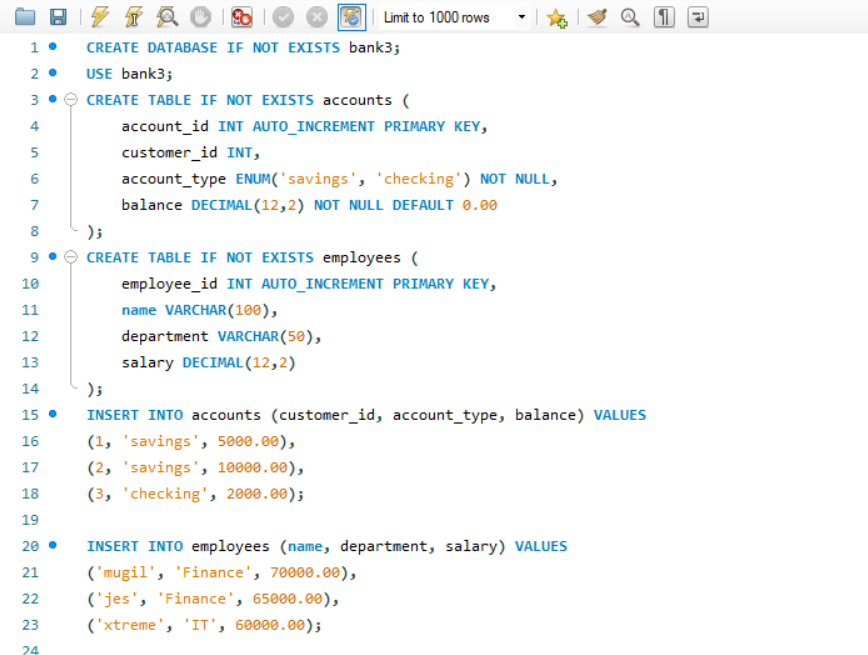
o Question: Write a stored procedure ProcessMonthlyInterest that calculates and updates the balance of all savings accounts by applying an interest rate of 1% to the current balance.

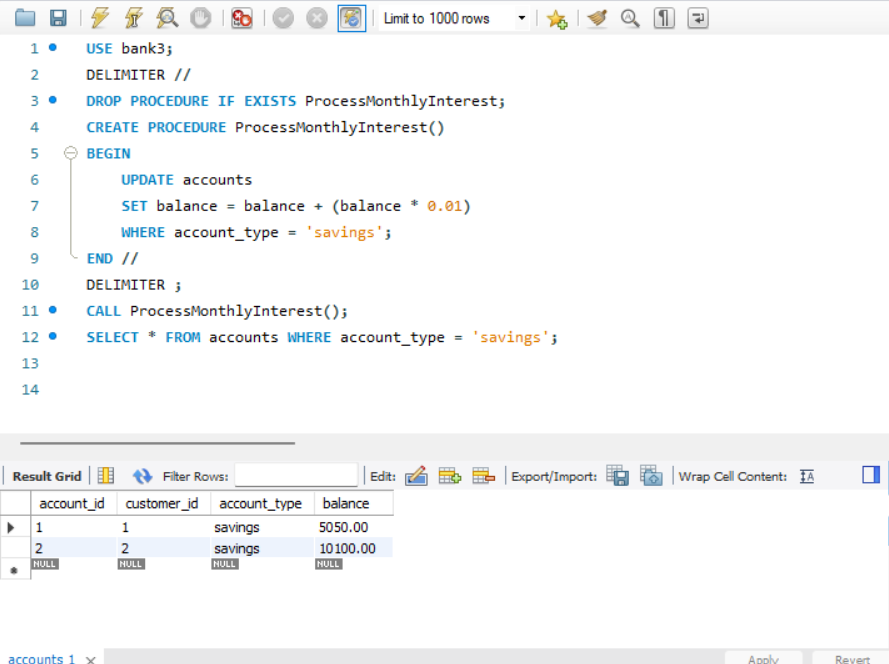
Scenario 2: The bank wants to implement a bonus scheme for employees based on their performance.

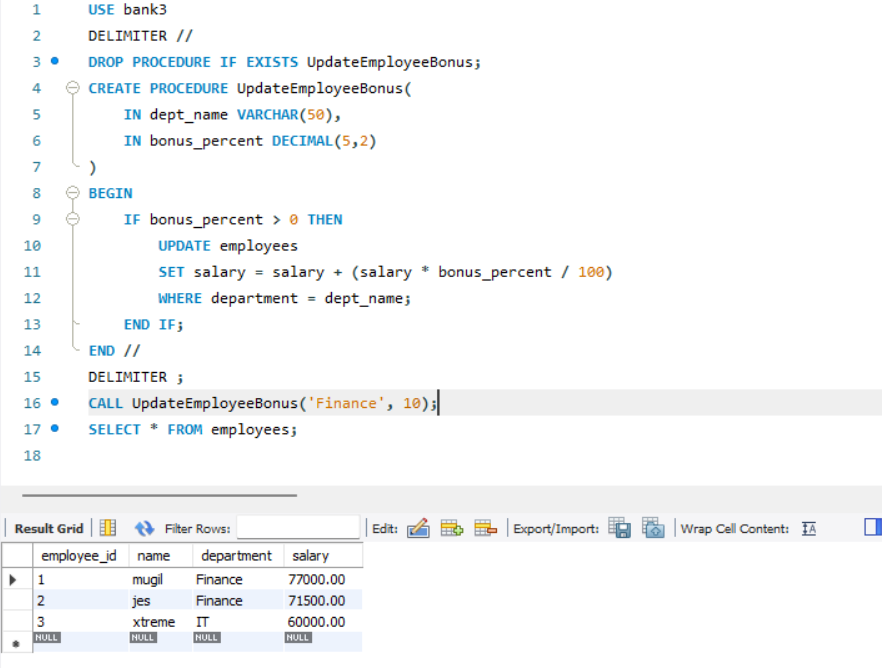
o Question: Write a stored procedure UpdateEmployeeBonus that updates the salary of employees in a given department by adding a bonus percentage passed as a parameter.

Scenario 3: Customers should be able to transfer funds between their accounts.

o Question: Write a stored procedure TransferFunds that transfers a specified amount from one account to another, checking that the source account has sufficient balance before making the transfer.

TABLE creation:  


Scenario1 & output:  
  
  
Scenario2 & Output:



Scenario 3 & output :  
