Given the database for a system which manage the customer account information of a bank as below



There are two type of bank account that the system manages: saving accounts and loan accounts.

* The saving accounts are to track the saving moneys
* The loan accounts are to track the borrowing moneys

For a saving account, there are some data constraints as below:

* The saving amount must be positive and greater than or equal to 100.000.000 VND
* The saving term must be positive and >= 30 days

For a common loan account, there are some data constraints as below:

* The amount borrowed must be positive and less than or equal to 1.000.000.000 VND
* The term must be positive and <=365 days
* Interest rate must be less than 15%

There are two special types of loan account that the system needs to handle, the personal loan and the investment loan:

* In the personal loan, the amount borrowed must be less than or equal to 100.000.000 VND, the term must be <= 30 days, and the interest rate must be between 5% and 15%
* In the investment loan, the amount borrowed must be <= 500.000.000 VND, the term must be less than or equal to 90 days, and the interest rate must be less than 18%

**Questions**

For the following request, print out respectively the screenshots to show test data (the table data that you create to test each query), the query results, and pack them into a zip file (FinalAss\_AccountName.zip) along with the SQL scripts and handle to the evaluator via email ([XYZ@fsoft.com.vn](mailto:XYZ@fsoft.com.vn))

1. Create the tables (with the most appropriate field/column constraints & types) and the suitable INSERT/UPDATE triggers (to validate and prevent data constraints violation) and add at least 3 records into each created table (for LoanAccount table, add at least 3 records for each of the special account type)
2. Write SQL script(s) to:
   1. Specify customer accounts (include account number and customer name) that don’t have any loan or saving account
   2. Specify customer accounts which have relevant loan and/or saving accounts are due or over due today. The output include loan/saving date, account type, loan/saving amount, shown in different [account number, customer name] groups.
3. Write a stored procedure with two parameters (account number and account date) to reset the LoanAmount and/or SavingAmount of the selected account. The resetting would be done on each of the suitable account (either loan or saving) as below:
   * Calculate the interest of the account (counted till the date when user runs this stored procedure)
   * Adding the interest into current account amount to have new account amount
   * Update the account information to the new account amount and the current date

Barem: Q1: 4.5đ (2.5 + 2); Q2: 2.5đ (1 + 1.5); Q3: 3đ (1 + 1 + 1)