# Lab: Triggers and Transactions

You can check your solutions here: <https://judge.softuni.bg/Contests/3202/Additional-Exercises>.

Create a database **BankTransactions** and table **Accounts** by executing the following code:

|  |
| --- |
| CREATE DATABASE  BankTransactions  GO  USE BankTransactions  GO  CREATE TABLE Accounts  (  AccountId INT PRIMARY KEY  , [NAME] VARCHAR (20)  , Balance MONEY  )  GO  INSERT INTO Accounts (AccountId, [NAME], Balance) VALUES (1, 'Tom', 100)  INSERT INTO Accounts (AccountId, [NAME], Balance) VALUES (2, 'Jerry', 50)  GO |

## Bank Transactions

Create a transaction, that transfers money from one customer's account to another customer's account. Create **usp\_SendMoney** that should take parameters:

* **senderAccountId int**
* **receiverAccountId int**
* **amount**

If you receive **NULL** for sender account id or receiver account id raise error with message 'Account doesn''t exist!'. And if the sender does not have enough money for the wanted transaction raise error with message 'Insufficient funds!'.

If the transaction does not affect only one row, do not withdraw.

**Submit** your query **only** for the **procedure**.

#### Example

Transfer 40 from Jerry to Tom

|  |  |  |
| --- | --- | --- |
| **AccountId** | **NAME** | **Balance** |
| 1 | Tom | 140.00 |
| 2 | Jerry | 10.00 |

## Trigger Accounts Delete

Use **BankTransactions** database. Add to the table **Accounts** a **new column** that takes **0 or 1** values and name it **IsDeleted.** Add to the table **Accounts** a trigger **tr\_AccountsDelete,** that instead of deleting a row, changes the value of the **IsDeleted** column **to 1 if it is 0**.

#### Example

Delete the row where AccountId is 1.

Graphical user interface, table

Description automatically generated

Table

Description automatically generated