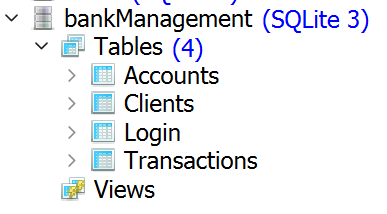
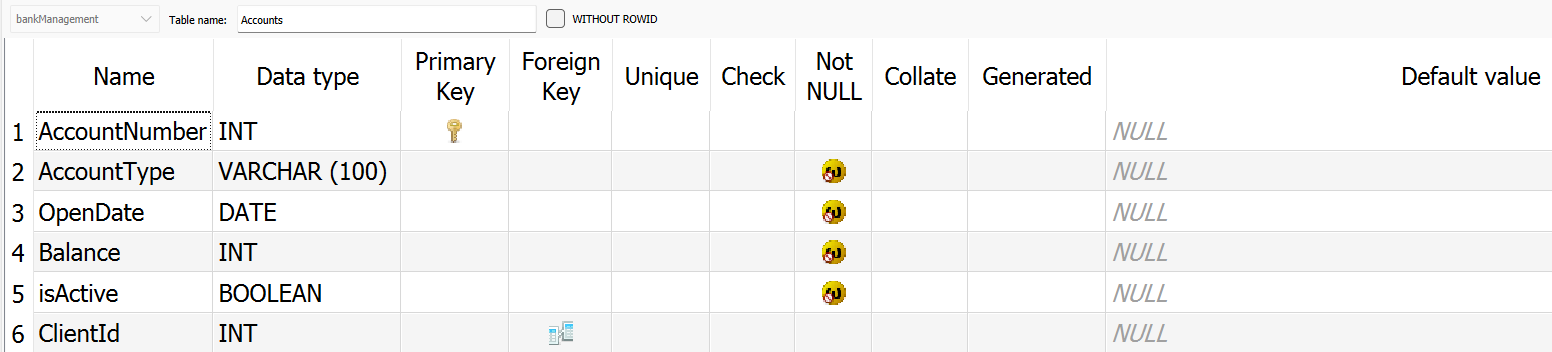
Bank Account Management System

* By Jiamin Yuan & Emmy Ea

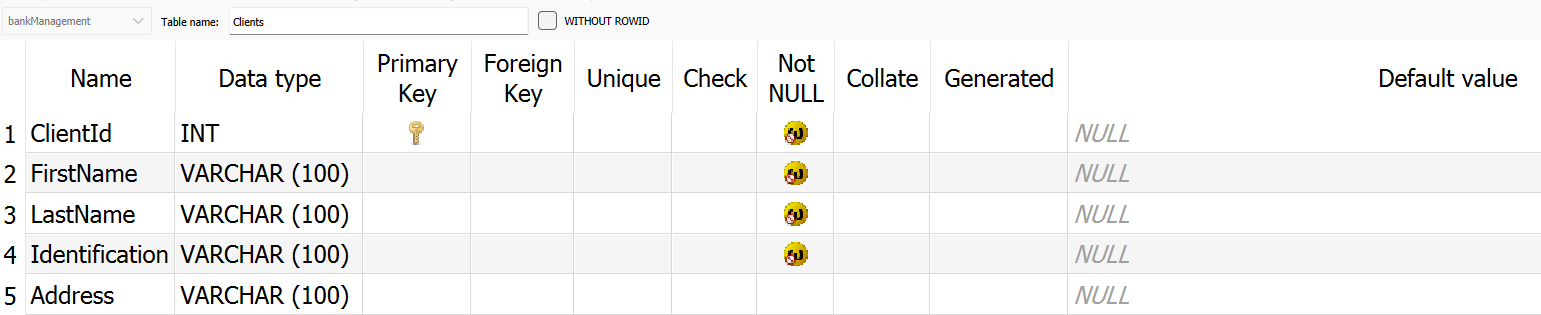
**bankManagement.db**



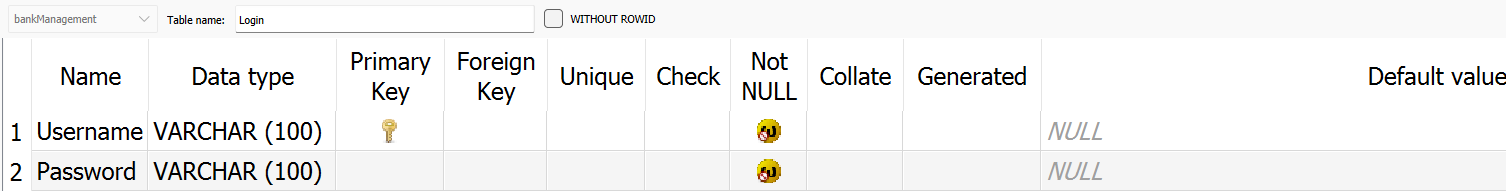
**Accounts Table**



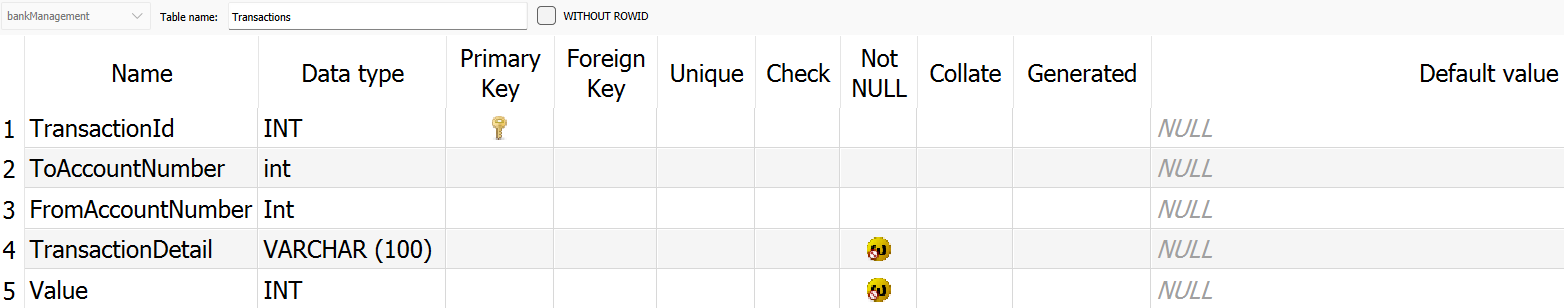
**Clients Table**



**Login Table**

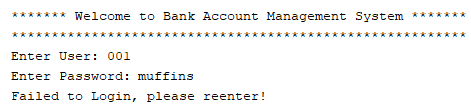


**Transaction Table**

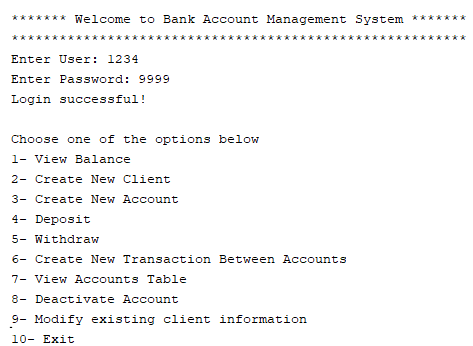


**Log in:**

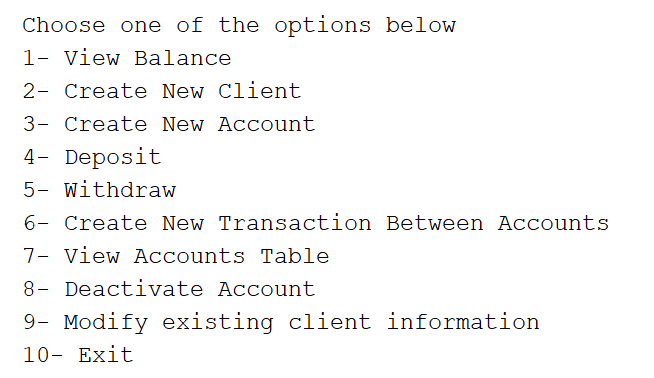
Failure to login using wrong User and Password



Successful login will lead to menu of options below

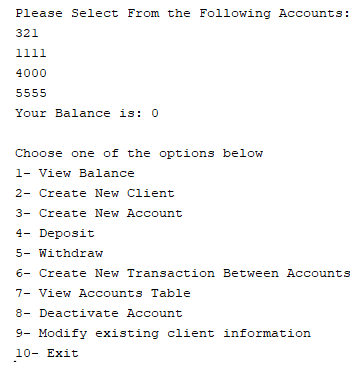


**Main Menu:**

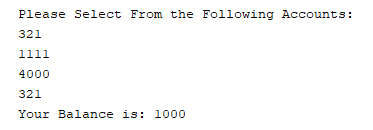
****

*Option 1 - View Balance*

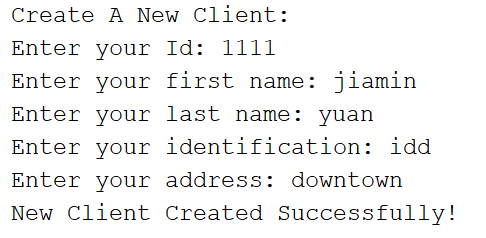
Displays existing accounts available to choose from. Entering a non-existent account will display a balance of 0 and send the user back to the menu.

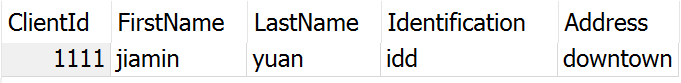


Selecting an existent account will return that account’s balance.



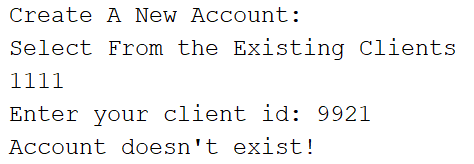
*Option 2 - Create New Client*



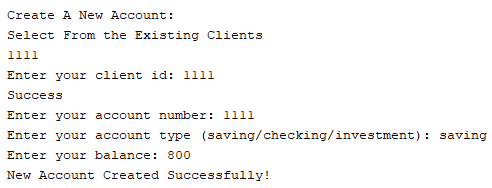


*Option 3 - Create New Account*

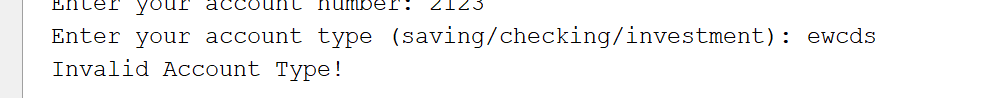
User have to select from the existing clients’ id, since client id is a foreign key in account table



To successfully create an account the user must choose among the existing clients.

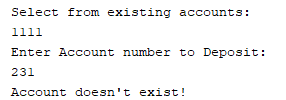


Invalid Account Type:

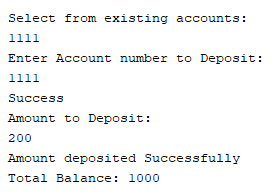


*Option 4: Deposit*

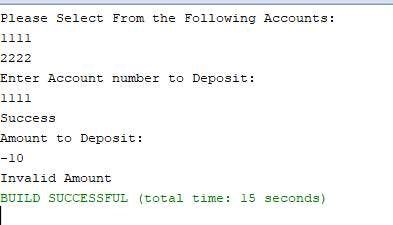
Failure to enter an existing account.



Successful selection of an account will allow users to deposit any desired amount. A total balance is given.

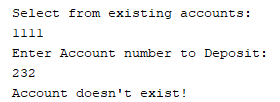


Deposit amount can’t be negative

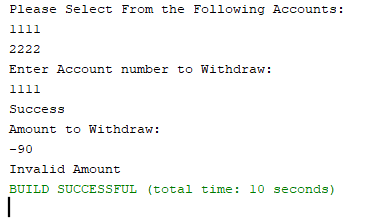


*Option 5: Withdraw*

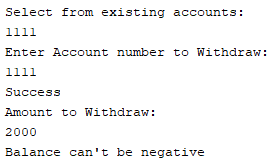
Failure to enter an existing account.

**

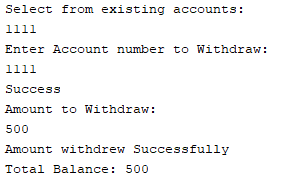
The Withdrawal amount can’t be negative.

**

Trying to withdraw more than within an account’s balance.

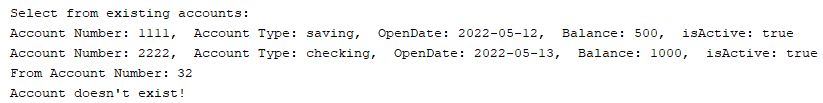


Successful selection of an account will allow users to withdraw any amount that is not over their current balance.

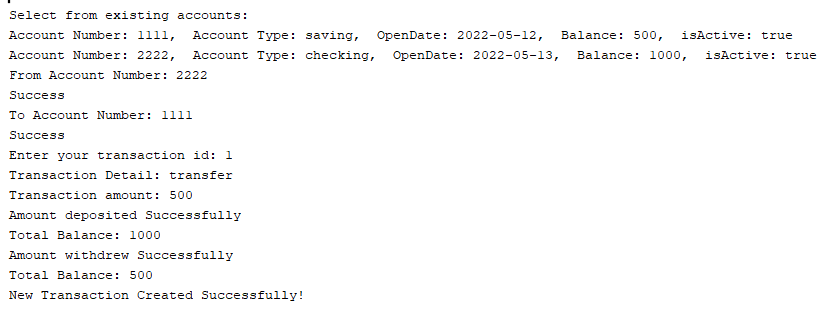


*Option 6: Create New Transaction*

Failure to select an existing account.



Once two successful accounts are created. A transfer between two accounts is possible.



Attempting to create an existing TransactionId.

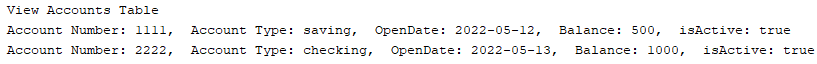
Error Executing Statement [org.sqlite.SQLiteException: [SQLITE\_CONSTRAINT\_PRIMARYKEY] A PRIMARY KEY constraint failed (UNIQUE constraint failed: Transactions.TransactionId)]

Error rolling back [java.sql.SQLException: database in auto-commit mode]



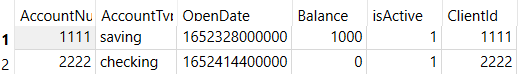
*Option 7: View All the Accounts*

Display Accounts Table.

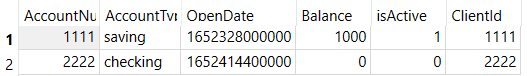


*Option 8 - Deactivated Account*

Accounts with zero balance with be deactivated -> isActive = 0

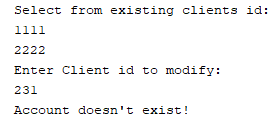




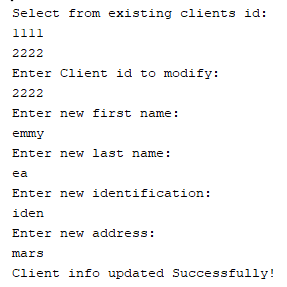


*Option 9 - Modify Existing Client Info*

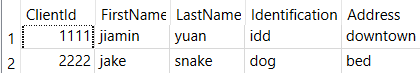
If clients’ id does not exist.

**

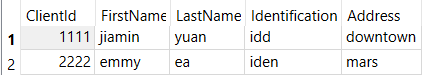
Successful modification.

**

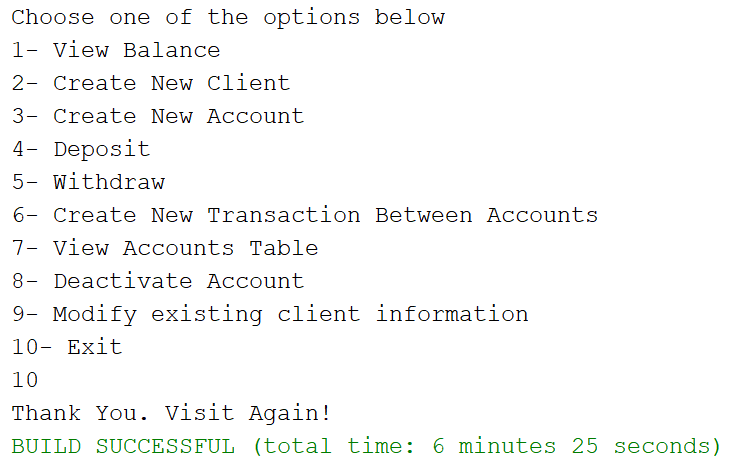
Before

**

After



*Option 10- Exit*



**Internationalization**

Must choose between these two codes in every file.

currentLocale = new Locale("fr", "FR"); currentLocale = new Locale("en", "EN");

