Implementation Documentation

**User**

We used artificial key UserID for this table’s primary key, as no other attribute about a user could uniquely identify a tuple.

Because of this, UserID has the constraint that it can’t be null.

**BankAccount**

We used artificial key BankAccountID for this table’s primary key, as no other attribute about a BankAccount could uniquely identify a tuple.

Because of this, BankAccountID has the constraint that it can’t be null.

**Transaction**

We used artificial key TransID for this table’s primary key, as no other attribute about a transaction could uniquely identify a tuple.

Because of this, TransID has the constraint that it can’t be null.

**BankCard**

We used artificial key BankCardID for this table’s primary key, as no other attribute about a BankCard could uniquely identify a tuple.

Because of this, BankCardID has the constraint that it can’t be null.

**UserTransaction**

This table uses UserID and TransID as its primary keys. There is a foreign key/RI constraint: each UserID and TransID in UserTransaction must correspond to those existing fields in User and Transaction, respectively. If either is deleted in the User or Transaction tables, they will be deleted in the UserTransaction table as well. The ProgressStatus has a maximum length of 7 because the longest string we could assign to it is “Pending”.

**UserBankAccount**

This table uses UserID and BankAccountID as its primary keys. There is a foreign key/RI constraint: each UserID and BankAccountID in UserBankAccount must correspond to those existing fields in User and BankAccount, respectively. If either is deleted in the User or BankAccount tables, they will be deleted in the UserBankAccount table as well.

**UserBankCard**

This table uses UserID and BankCardID as its primary keys. There is a foreign key/RI constraint: each UserID and BankCardID in UserBankCard must correspond to those existing fields in User and BankCard, respectively. If either is deleted in the User or BankCard tables, they will be deleted in the UserBankCard table as well.