Justification for normalized relational schema:

Relation 1 contains transaction information. Each transaction is identified by the TransID. All other attributes are dependent on TransID, therefore our left-hand side of our functional dependency **TransID *→*TransAmount, TransType, TransDate, TransMsg, TransAudience** is the key.

Relation 2 contains the User information. Each user is identified by his UserID. All the other attributes are dependent on UserID. Therefore, our left-hand side of our functional dependency **UserID *→*UserFirstName, UserLastName, UserEmail, UserPassword, UserAccountBalance** is used as the key.

Relation 3 contains the bank account information for every user. To access these information BankAccountID is used as a key in the functional dependency **BankAccountID *→*BankLoginPassword, BankLoginID, BankAccountName, BankAccountNo, BankAccountRoutingNo**.

Relation 4 contains the bank card information for every user. To access bank card information of a user BankCardID is used as the key therefore it is in the left-hand side of the functional dependency **BankCardID *→*BankCardNo, BankCardExpirationDate, BankCardSecurityNo, BankCardZipNo**.

Relation 5 allow access to a user’s friend ID and the progress status of the transaction. To access these information both UserID and TransID are keys and therefore in the left-hand side of the functional dependency**UserID, TransID → UserIDFriend, ProgressStatus**.

Relation 6 is needed because none of the previous relations contains a key and can provide all the attributes in relation Venmo. From Left Middle Right method, TransID UserID BankAccountID BankCardID is the key that access all the attributes in Venmo and therefore it is required to be added in R6.