CS 452

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**Project schema**

* User (UserID, UserName, UserAge, UserAddress, UserPhone, UserFriendID, ChatRoomID, FileID, CreatedDate, DeletedDate, Status)
  + Foreign Key UserFriendID references UserFriend
  + Foreign Key ChatRoomID references ChatRoom
  + Foreign Key FileID references File

User table will store all users’ data having relationships to UserFriend & ChatRoom & File tables.

* UserFriend (UserFriendID, UserID)
  + Foreign Key UserID references User

UserFriend table will store user’s friend ID so that we can access friend’s information by looking up ID in User table.

* ChatRoom (ChatRoomID, MessageID, CreatedDate, ChatNumber, DeletedDate, Status)
  + Foreign Key MessageID references Message

ChatRoom table will store all conversation channel users create.

* Message (MessageID, Message, CreatedDate, DeleteDate, Length, Status)

Message table will store all messages users have.

* File (FileID, FileName, FileType, FileContent, FileSize)

File table will store all the files users receive or upload within a limited data size.