CS 452
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Project Schema

- User - Store all user data. A userID has 0..* ChatRoomIDs (through MapUserToChatRoom table).
    - ID - Primary key, uniquely identifies users
    - Name - The user's screen name
    - Age - The user's age
    - Email - The user's email address
    - Phone - The user's phone number
    - Infractions - The number of times this user has had their messages auto sent
    - Created - When the user's account was created
- ChatRoom - Store all user created chat rooms. A chat room has multiple users (indirectly related through MapUserToChatRooms table) and multiple messages.
    - ID - Primary key, unique identifier for the Chat Room
    - Name - User given name for the Chatroom
    - Created - Date the chatroom was created
- MapUserToChatRoom- maps user to 0..* chat rooms.ID - Primary key, unique identifier for the UserID to ChatRoomID relationship relationship
    - ChatRoomID - Foreign key, references ID on table ChatRoom
    - UserID - Foreign key, references ID on table User
- Message - Store all messages. Each message is related to one userID and ChatRoomID.
    - ID - Primary key, unique identifier for the message
    - UserID - Foreign key, references ID on User table
    - ChatRoomID - Foreign key, references ID on ChatRoom table
    - Content - The content of the message
    - Created - When the message was sent

This schema satisfies some aspects of normalization, including the following:

- 1NF (First Normal Form) Rules
    - Each table cell should contain a single value. - yes
    - Each record needs to be unique. - yes
- 2NF (Second Normal Form) Rules
    - Rule 1- Be in 1NF - yes
    - Rule 2- Single Column Primary Key - yes

- Each set of related data has its own table
- There are no repeating groups in individual tables