

Database Schema

Table Name	Description	Primary Key	Sorted Key	Other Fields
user	Stores user general information and sports interests	userID		- firstName - lastName - locationID (foreign key) - userSports
conversation	Stores userID's of the conversation participants	conversationID		- participantIDs (foreign keys userID's)
message	Stores a message between users	messageID		- senderID (foreign key userID) - conversationID - message - timestamp
location	Stores the location info of the user	locationID		- city - state - country - zipCode

user (userID, firstName, lastName, locationID, userSports)

userID: primary key references user

locationID: foreign key references user location

explanation: this is a user with the normal user info and sports interests.

entity: users

relates: a user has a locationID which is the users location, participates in conversations which have messages.

normalization: locationID

columns: firstName and lastName are self-explanatory. userSports is a list of the sports the user plays.

conversation (conversationID, creatorID)

conversationID: primary key references conversation

creatorID: foreign key references the creators userID

explanation: the conversation between users

entity: conversations

relates: a user participates in a conversation, a conversation has messages.

Normalization: creatorID(which is userID)

Columns: explained above

message (messageID, senderID, participantsID, conversationID, message, date)

messageID: primary key references a specific message

senderID: foreign key references senders userID

participantsID: foreign key references all participants userIDs

conversationID: foreign key references conversation

explanation: a message between users

entity: messages

relates: a message has a sender and one to many receivers. A message is part of a conversation.

Columns: message is the text of a specific part of a conversation. Date is the time the message is sent.

Normalization: senderID, participantsID, conversationID

location (locationID, city, state, country, zip code)

locationID: primary key references user location

explanation: the location info of a user

entity: locations

relates: the user has a location, a location can have none to many users.

Columns: city, state, country, and zip code are self-explanatory.