Feature	Points
Overall Program Structure	**20**
● Previous code still works!	5
● Correct "main" handling	5
● Separate database per user	5
● Good modularity and exception handling	5
Database Creation and Update Functionality	**40**
● Correctly connect to and create database	8
Use a separate database name per user	
Catch and display any exceptions	
● Update chats table when new chats start	8
Store information in chats table correctly	
Catch and display any exceptions	
● Update messages table when each message goes by	8
Store information in messages table correctly	
Catch and display any exceptions	
● Keep intersection tables (messages_in_chats, members_in_chats) correctly updated	8
Add a row to messages_in_chats to indicate each new message associated with a chat	
Add a row to members_in_chats for each member associated with a chat	
Catch and display any exceptions	
● Correctly shutdown database	8
Correctly issue SHUTDOWN command	
Close the database statement and connection	
Catch and disiplay any exceptions	
Optional: checkpoints throughout the code	
Database Retrieval and Display Functionality	**40**
● Produce list of all members you've ever chatted with	15
Fetch all distinct members from the chats table	
Display correctly in a window	
Catch and display any exceptions	
● Display history window for selected user	25
Fetch all chats associated with a given user	
Fetch all messages associated with those chats	
Display in an organized way in a window	
Catch and display any exceptions	
Bonus	**10**
● Fancy (and *correct!!*) schema above and beyond what's been provided	5
● "Statistics" UI giving details about average numbers of chats, average numbers of messages per chat, average chat duration, etc.	5