IN2011 Polite Messaging Application

Configuration

* Set up database so that it is connected to your local MySQL database.
* Create a new database on your MySQL drive called “politeMessaging”
  + Create database politeMessaging;
* The username and password need to be changed with the correct data in DBDriver .java. This is according to what you have set up on your MySQL.
* Add the Mysql-connector-java-8.0.19 library which can be found in the directory cw2
* Run the following on the command line:
* javac -cp .:mysql-connector-java-8.0.19.jar \*.java
* You can add the absolute paths if it’s not working
* E.g. javac -cp .:/Users/masum/Desktop/cw2/mysql-connector-java-8.0.19.jar /Users/masum/Desktop/cw2/\*.java
* Run the DBDriver.java file. This will add relative tables and the initial message to the database.
* java -cp .:mysql-connector-java-8.0.19.jar DBDriver
* If using the IntelliJ IDE, please have the Mysql-connector-java-8.0.23 initialised in the libraries.
* Run the server
  + java -cp .:mysql-connector-java-8.0.19.jar TCPServer
* When running a client from the terminal, type
  + java TCPClient ‘host’ ‘port’ where host is ip address and port should be 20111.
* java -cp .:mysql-connector-java-8.0.19.jar TCPClient localhost 20111
* As this app can handle multiple clients, a TCPServer should be opened with 2 or more clients.
* Initial message should be similar to the following:
  + Protocol? 1 name.
  + In this case, '1' is the protocol number and 'name' is username.
* Clients who have the same protocol number will be able to interact with each other. If a different number is used, then they will not be able to interact.
* Example commands followed by enter.
  + Time?
  + Get? SHA-256 bc18ecb5316e029af586fdec9fd533f413b16652bafe079b23e021a6d8ed69aa
  + List? 10 1
  + Topic: #announcements
    - List can search for up to 4 headers.
  + Create?
    - Will create a message by providing the details as prompted.
  + Delete? Time 238783739
    - Delete all messages sent before 238783739
  + Delete? Contents 2
    - Delete all messages with 2 lines
  + Delete? Header topic: #announcements
    - Delete all messages with the header and value.
  + BYE!
    - Will close the connection

Libraries used:

* Mysql-connector-java-8.0.23
* Created with IntelliJ IDE.

The project is programmed in Java using the MySQL RDBMS.