

Complaints Collection:

This collection holds the complaints about the hypothetical SQLchat Messenger which are made by the users. The collection consists of complaints relating to how the messaging platform functions and suggestions on new features the Messenger could add. Each complaint consists of (user_id, complaint_type, complaint_text, complaint_time). Each user is assigned a unique id and complaint time is the date at which the complaint was made.

Reports Collection:

This collection holds the reports of users concerning the behavior of other users. Any user can report another user if the reported user is disruptive to the SQLchat messenger's environment. Each report consists of (user_id, complaint_type, complaint_text, complaint_time). Each user is assigned a unique user id and complaint time is the date at which the complaint was made.

Main Loop:

The user is prompted to enter their own user id which will be used when new data is added by that user or to limit the user from deleting other entries that don't share the same user id.

Afterwards, 6 options are shown:

- 1- Create a collection
- 2- Read all data in a collection
- 3- Read some part of the data while filtering
- 4- Insert data
- 5- Delete data
- 6- Update data

Create a collection

Any user may create a new empty collection with a unique name.

Read all data in a collection:

Any user may read all data belonging to a collection. The data is printed into the console.

Read some part of the data while filtering:

The function filters records that are owned by the user in a specific collection. For the data to be filtered, the attribute which is being searched for needs to be specified. If there are records available that fulfill the requirements, the records get printed to the console otherwise, nothing gets printed and the program moves onto the next instruction.

Insert data:

The current user can add new data into a specific collection. The added records will be tied to the current user's user ID. If a new item was successfully added, the id of the new entry gets printed to the console otherwise, an error message is printed.

Delete data:

The current user can delete data in a specific collection. The user can only delete records that belong to them. If a record is successfully deleted, the user is informed of the deletion otherwise, the program reports either the ID is incorrect or the user does not have access to that record.

Update data:

The current user can update an attribute of a record in a specific collection. The user can only update records that belong to them. If a record is successfully updated, the user is informed of the update otherwise, the program reports either the ID is incorrect or the user does not have access to that record.