



Final project – SKKU talk



Objective

- Make a KakaoTalk-like SKKU talk
- You need to implement Basic functions and Additional functions
- Must be implemented with Sqlite (it's hard to run other DB engines)
- You can use any framework you want (like react, nextjs...) (but no for Wordpress or something similar)
- Demonstrate your SKKU talk with presentation video

What to Submit

- You need submit following things
 - Your presentation video
 - Your whole code (project folder)
 - README file
 - Sqlite DB file with example data
- Name of the video file should be '2020123123_김돌돌_presentation'. Any video format is fine (please use standard ones like mp4)
- Name of the project folder should be '2020123123_김돌돌'.
- README file instructs how to run your code
- Example Structure
 - 2020123123_김돌돌.zip
 - README
 - 2020123123_김돌돌_presentation.mp4
 - 2020123123_김돌돌
 - Your codes...

Score Policy

- Total : 130 pts
 - Basic Functions : 30 pts
 - Additional Functions : 50 pts
 - Design : 20 pts
 - Presentation : 30 pts

Presentation video

- You need to present following 3 parts in order
 - Introduction
 - Basic Functions
 - Additional Functions
- Presentation video cannot exceed 20 minutes
- Be aware that you cannot get score without presentation video
- Score guideline
 - 30 pts : Fully demonstrated
 - 15 pts : Not properly demonstrated
 - 0 pts : Total mess

Presentation – Introduction

- In introduction, you need to present following things in order
 - Framework, Software stacks you used
 - Code Structure
 - How to Run
 - What Additional Functions you implemented

Presentation – Functions

- In introduction, you need to present each functions (Basic and Addition)
- Each function should be presented with following things
 - Explanation of the code design while showing your code (NOT whole code, just essential part)
 - Demonstration specified by guideline of each function
 - Changing of the DB table while doing backend interaction

Design

- Design similar to the KakakTalk get full score (We do not want to access your aesthetic sense)
- If you are creative enough, you can make your own design. If it's beautiful, you'll get full scores.
- Score guideline
 - 20 pts : Almost same as Kakao
 - 10 pts : Seems like KaKao, but bit clumsy
 - 0 pts : Total mess
- Be aware that we also access design of the Additional Functions (not the design we specified not to access)

Basic Functions

- Core functions of SKKU talk
- All students need to implement Basic Functions
- If you do not implement Basic Functions, You can not get points for Additional functions
- Basic Functions are
 - Login
 - Friend List(친구목록)
 - I to I Chatting(1대1 채팅) (without image, video, link)
 - Chat List(채팅 목록)
 - Implemented with Sqlite

Basic Function – Login

- Simple Login page
- You also need button to register new user
- Simple login form is like left is fine
- Please do not make messy stuff
- **Demonstrate**
 - Register 2 new users and login to one account

SKKU talk

id

password

Login

Basic Function – I to I Chatting

- Simple Chatting
- 2 people can talk each other in the same room
- Works like KakaoTalk
- Same requirement as HW3. No need to improve
- **Demonstrate**
 - Click friend from friend list to start the chat
 - Just some simple conversation
- Typically, when you log in to your website, all tabs share session which means you can have only one active user
- To avoid this we suggest you to use Private Mode and Normal Mode

Basic Function – Friend List

- List of the user's friend
- Click the friend to start the chat (make the 1 to 1 chatting room)
- Just page with list of friend name is fine
- No need to implement profile photo and description(상태메세지) or some messy things
- Need button to add friend
- No need to be beautiful
- **Demonstrate**
 - Add the new friend and show the friend list

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Basic Function – Chat List

- List of Chatting rooms you already created
- Show the name of the other user and recent chat
- Click to enter chatting room
- Chatting room should reserve previous conversation
- **Demonstrate**
 - Make multiple chatting room and check the chat list
 - Enter any chatting room

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자니?

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배고파

김솔솔
헤어져

김볼볼
저녁 ㄱㄱ?

롯데리아
롯데리아 특별 행사

김놀놀
이 메시지를 받은 사람은,,,

Additional Functions

- You need to implement Additional Functionality to get full score
- You implement 3 Additional Functionality.
If you Implement more than 3, you need to tell which Additional Functionalities to be accessed(Pick only 3)
- Total Score for Additional Functionality cannot exceed 50 (If you got 25, 25, 20, you'll get 50)
- Additional Functionality are
 - Group Chatting
15 pts
 - Profile Photo and Profile description when you click the friend(or photo thumbnail)
20 pts
 - Response for individual message(답장기능)
20 pts
 - Sending and Viewing Photo in Chatting room
20 pts
 - Sending and Viewing Video in Chatting room
25 pts
 - Push Notification when new message comes
25 pts

Additional Function – Group Chatting

- Simple Group Chatting
- 3, or more people can talk each other in the same room
- Works like KakaoTalk
- Make group chatting create button somewhere and put friends' id (simple like example is fine)
- We don't access Group chatting making page design
- **Demonstrate**
 - Making group chatting
 - 3 people talking each other
- Typically, when you log in to you website, all tabs shares seesion which means you can have only one active user
- To avoid this we suggest you to use Private Mode and another browser (Including Normal Mode browser)

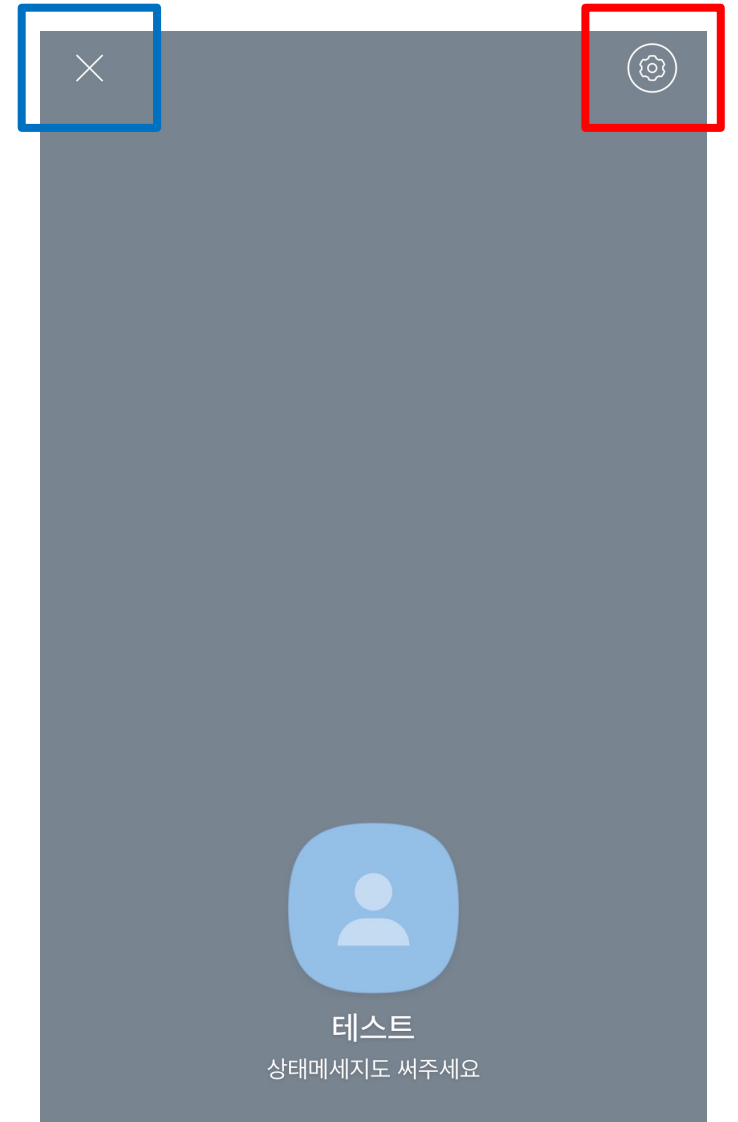
chat list

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make group chat

Additional Function – Profile Photo and Profile description

- Typical KakaoTalk-like profile
- Profiles shows name, description, photo
- You can put image and description message with button in **Red Box**
- You can close the profile with X button in **Blue Box**
- After clicking red box you need to implement HTML Form to send video and description to the server.
- We don't access design for HTML Form to send video and description
- **Demonstrate**
 - Click you profile page, and change the photo and description
 - Click other friend's profile



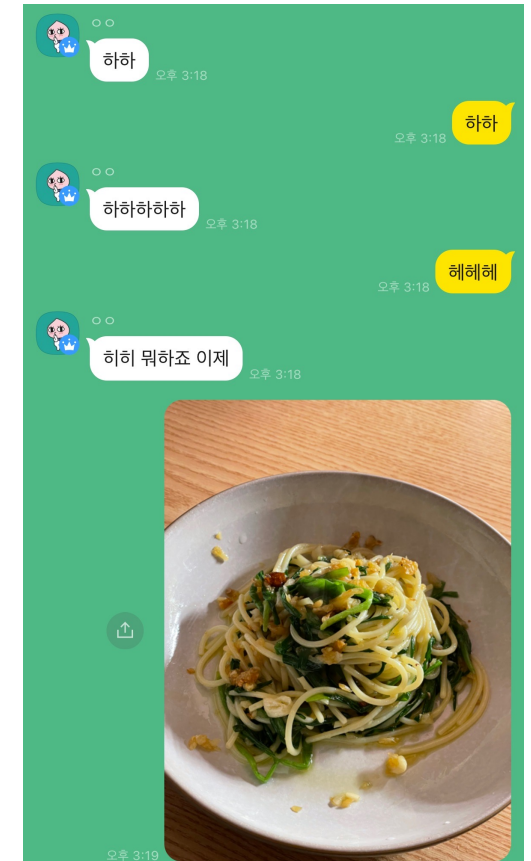
Additional Function – Response for individual message

- Respond to previous message
- Show the content of the previous message and your new message
- When you click the response message, scroll go up to the message you responded to
- Add simple response button for each message
- **Demonstrate**
 - Go to any chat room and respond to previous message
 - Click the response message to get to original message
(There should be many messages between response and original message)



Additional Function – Sending and Viewing Photo in Chatting room

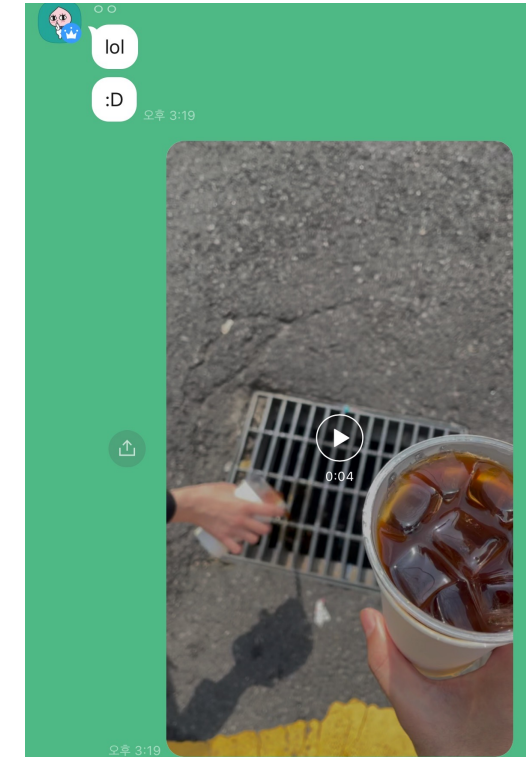
- Send one photo message
- Photo message is rendered to thumbnail of the photo
- When you click the image, you can see photo in original size
- Photo message should be stored in DB
- Add simple send photo button
- **Demonstrate**
 - Send 1 photo to any user
 - Click image to see full image



Send Photo

Additional Function – Sending and Viewing Video in Chatting room

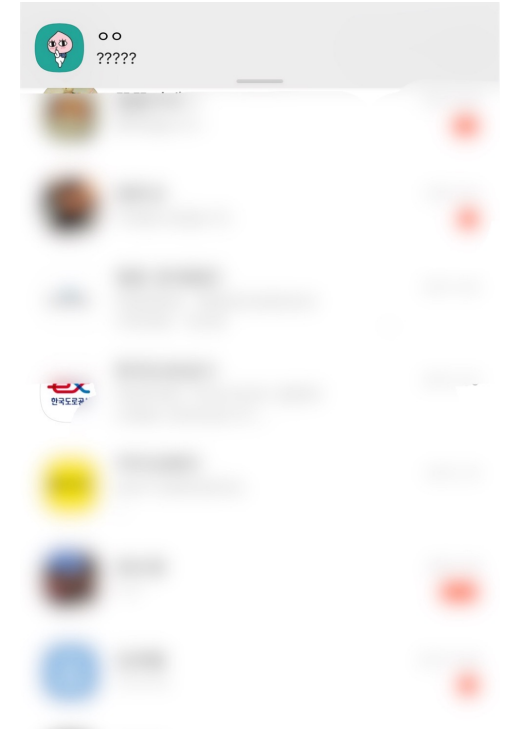
- Send one video message
- Video message is rendered to thumbnail of the video
- When you click the video, you can play the video
- Video message should be stored in DB
- Add simple send video button
- Video player can be simple as browser's own video player or you can use any library from internet
- **Demonstrate**
 - Send 1 video to any user
 - Click video to see play the video



Send Video


Additional Function – Push Notification when new message comes

- Get push notification when new message comes
- Push message should be displayed on top aread
- Push message should overlap the previous element
- Push message shows name of the friend and message
- **Demonstrate**
 - Send new message from other side and show push notification




How to view your DB file


- Install SQLite Viewer in VS Code



SQLite Viewer v0.3.13

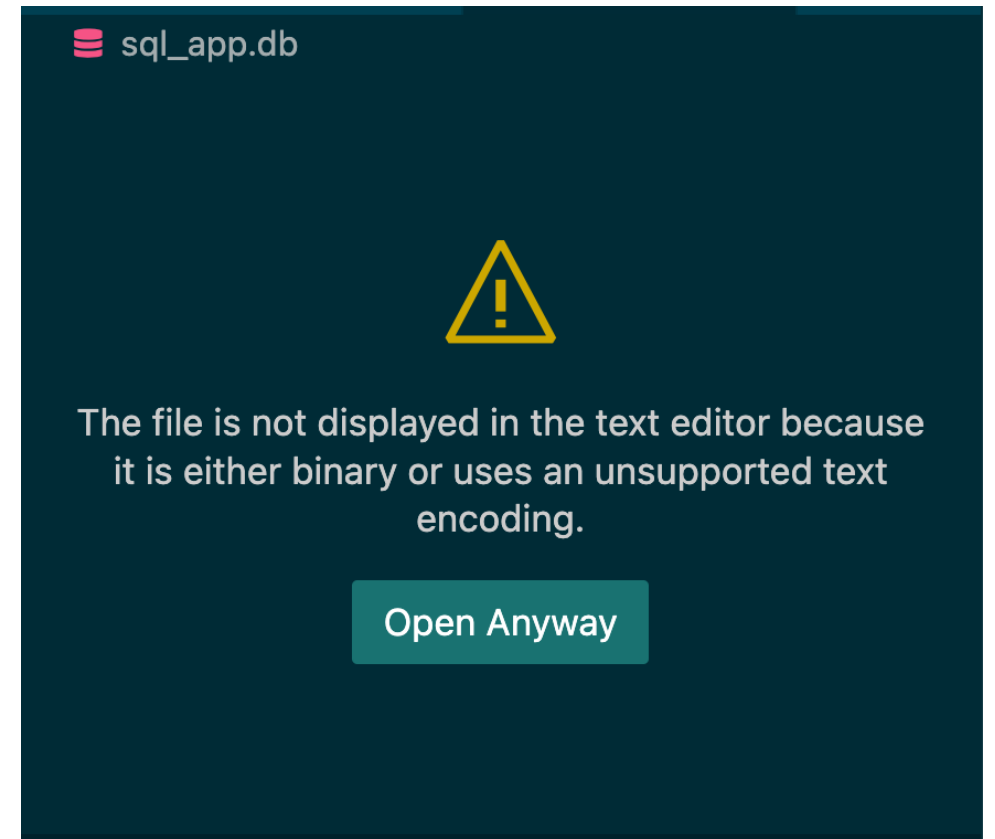
Florian Klampfer  qwtel.com |  720,023 |  (42)

SQLite Viewer for VSCode

[Install](#) 

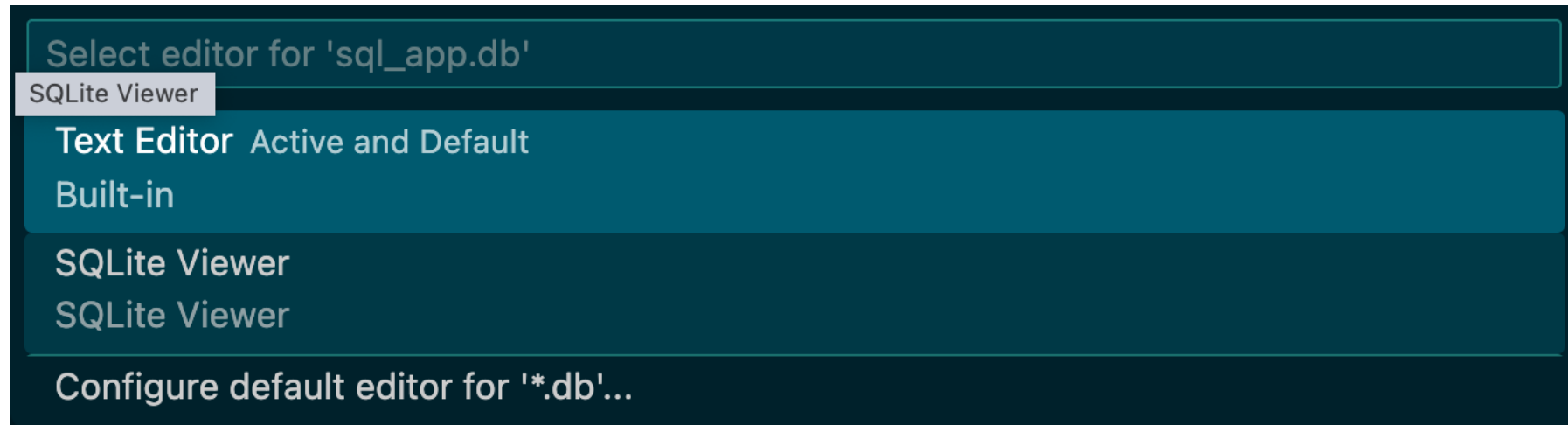
How to view your DB file

- Click the sql_app.db (or any other sqlite db file)
- Click open anyway



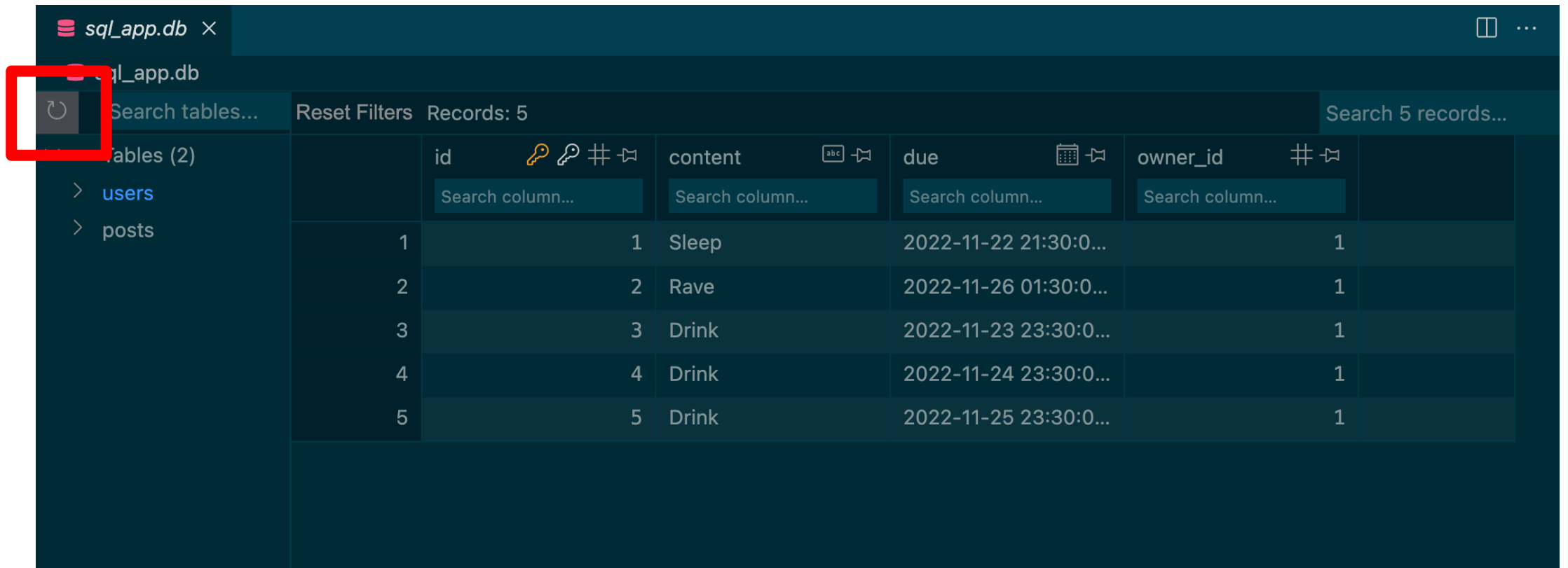
How to view your DB file

- Click SQLite Viewer



How to view your DB file

- You can see the DB
- To reload the new data, click update button



The screenshot shows a database application window titled 'sql_app.db'. On the left, a sidebar lists 'tables (2)' with 'users' and 'posts'. The main area displays a table with 5 records. A red box highlights a circular refresh button in the top-left corner of the table area. The table has columns: 'id' (primary key), 'content', 'due', and 'owner_id'. The data rows are as follows:

	id	content	due	owner_id
> users				
> posts				
	1	Sleep	2022-11-22 21:30:0...	1
	2	Rave	2022-11-26 01:30:0...	1
	3	Drink	2022-11-23 23:30:0...	1
	4	Drink	2022-11-24 23:30:0...	1
	5	Drink	2022-11-25 23:30:0...	1