Final project – Note Taking App

Objective

- Make the 'Notion' like Note Taking App

- You need to implement Basic functions and Additional functions

- Must be implemented with Next.js backed with Sqlite

- Demonstrate your App with presentation video

Restriction

- You can use following modules only

  - Full-stack framework (Frontend + Backend) : Next.js

  - DB : SQLite (For ease of evaluation)

- You can freely add 3rd-party library for additional functionalities. (e.g. MDX, UI library, and etc…)

- You can use typescript if you want.

Submission Deadline

- Due date
  - 11/26 18:00 ~ 12/18 23:59
- Late submission penalty
  - One day late penalty : 33%
  - Two days late penalty : 66%
  - Three or more days : You cannot get any points
- We will not accept any excuses.
  - I uploaded the file at 23:57 but the servers ~~~
  - I wrote the code but compression failed ~~~

What to Submit

- You need submit following things

    - Your presentation video

    - Your whole code (project folder)

    - README file

- Name of the video file should be '2020123123_김둘둘_presentation'.
  Any video format is fine (please use standard ones like mp4)

- Do not include "node_modules" as like previous homework

- Do not include DB(dev.db) and migration folder as like HW3

- Name of the project folder should be '2020123123_김둘둘'.

What to Submit

- README file instructs how to run your code

- Example Structure

  - 2020123123_ 김돌돌.zip

    - README

    - 2020123123_ 김돌돌_presentation.mp4

    - 2020123123_ 김돌돌

      - Your project files…

      - Your codes…

Score Policy

- Total : 180 pts
  - Basic Functions : 40 pts
  - Additional Functions : 60 pts
  - Design : 20 pts
  - Presentation : 60 pts

Presentation video

- You need to present following 2 parts 'in order'
  - Basic Functions
  - Additional Functions
- Presentation video cannot exceed 30 minutes
- Be aware that you cannot get any score without presentation video
- Score guideline
  - 60 pts : Fully demonstrated
  - 30 pts : Not properly demonstrated
  - 0 pts : Total mess

Presentation order

- Introduction
  - How to run your code
- Basic functions section
  - Login / Register
  - Add New Note
  - Modify Note
  - Delete Note
- Additional Functions section
  - Specify what additional functions you implemented
  - Each addition functions …

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)

    - Demontration specifed by guideline of each function

    - Changing of the DB table while doing backend interation
      (If you do not present this DB thing, you can get 0 scores for whole project)

Design

- Design similar to Notion gets 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 : Seems like Notion
  - 15 pts : Not beautiful, but acceptable
  - 0 pts : Total mess

- We expect almost everyone gets around 10~15 pts

Basic Functions

- Core functions of Note taking App

- 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 / Register

    - Add New Note

    - Modify Note

    - Delete Note

Basic Function – Login / Register

- Simple Login / Register page

- You also need button to register new user

- Simple login form is like right one is fine

- Please do not make messy stuff

- **Demonstrate**

  - Register 2 new users and login to one account

Basic Function – Add New Note

- Make button for adding new note

- Same requirement as HW3. No need to improve

- **Demonstrate**

  - Click Add button and write anything on the note

  - Make another note and write anything on the note

Basic Function – Modify Note

- Functionality to modify already existing note

- Same requirement as HW3. No need to improve

- **Demonstrate**

    - Click on the any note already made, and modify the title and contents of it

Basic Function – Delete Note

- Functionality to delete the note

- You can follow the Notion's design, but it's not mandatory. Anything which is not messy is fine.

- **Demonstrate**

  - Delete the existing note

Additional Functions

- You need to implement Additional Functionality to get full score

- You implement 6 Additional Functionality.
  If you Implement more than 6, you need to tell which Additional Functionalities to be accessed
  (Pick 6 functions to be accessed)

- You should mention Additional Functions you implemented at the start of this section in the presentation

- Total Score for Additional Functionality cannot exceed 60

Additional Functions

- Additional Functionality are
  - Text Formatting
  - Search
  - Profile image
  - Comment
  - Favorite and Pin
  - Theme / Font change
  - Music Embed
  - Share
  - Note Directory
  - Table of Contents

Additional Function – Text Formatting

- Format the note like Notion

- Use markdown extension MDX

- Check this Page

- You need to stylise following things

  - Headings

  - Paragraph

  - Bullet list

  - Table

  - Bold

- **Demonstrate**

  - Write down the sample text written at the next page (Edit mode)

  - Change to View mode and check the result

Additional Function – Text Formatting

Additional Function – Text Formatting

```
# H1
## H2-2
This is **sample text**.<br/>
Please replace it with your own content.

## H2-3
- Task 1
- Task 2
- Task 3

| Column 1 | Column 2 | Column 3 |
|----------|----------|----------|
| Row 1    | Data 1   | Data 2   |
| Row 2    | Data 3   | Data 4   |
```

H1

H2-2

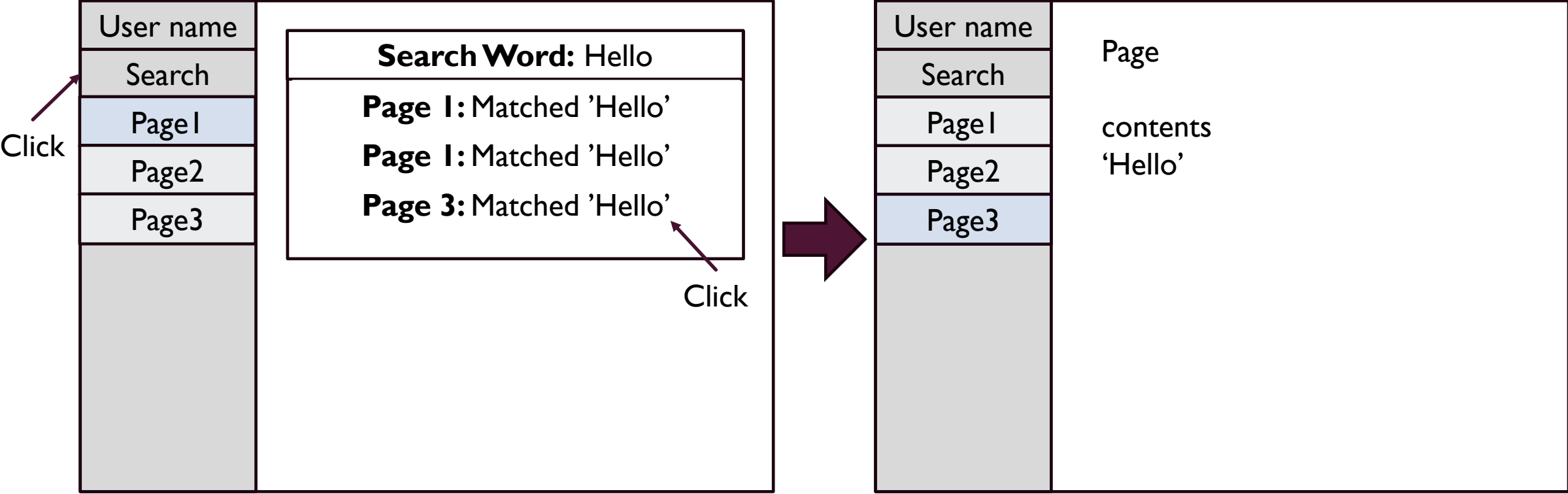This is **sample text**.

Please replace it with your own content.

H2-3
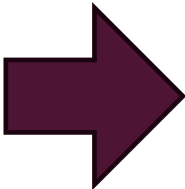
- Task 1
- Task 2
- Task 3

Column 1	Column 2	Column 3
Row 1	Data 1	Data 2
Row 2	Data 3	Data 4

Additional Function – Search

- Make functionality for searching text in entire notes.

- Make Search button

- After clicking search result, page navigate to the page that contains search keyword

- **Demonstrate**

  - Click search button and search some text

  - Show your app jumps to the page and highlight the text

Additional Function – Search

User name
Search
Page1
Page2
Page3

Click

Search Word: Hello
Page 1: Matched 'Hello'
Page 1: Matched 'Hello'
Page 3: Matched 'Hello'

Click

User name
Search
Page1
Page2
Page3

Page

contents
'Hello'

Additional Function – Profile Image

- Make a functionality for changing a profile image.

- When the user clicks his/her name, navigate to the page where user can change(upload) profile image

- If the user uploads an image and clicks a change button, his/her profile image must be changed

- You can save image in DB with blob format or save on file system

- **Demonstrate**

  - Upload any image and change the user's profile image

User name
Search
Page1
Page2
Page3

User name

| Upload | Change |

Additional Function – Comment

- Make a functionality for commenting

- Make a sidebar for comments

- When the user clicks the comment button, the sidebar shows up and provides text area for the comment.

- If some comments already exists, the sidebar automatically unfolded when page is loaded.

- When the user leaves a comment, the comment is listed on the sidebar with the time.

- **Demonstrate**

  - Make a comment and show that the comment is created

  - Delete the comment and show that the comment is deleted

User name	Page	Comments
Search		Comment1 11/25 13:23
Page1	contents	
Page2		Comment2 11/23 1:43
Page3		Type Sth Submit

Additional Function – Favorite and Pin

- Make a favorite toggle button

- If the page is chosen by a "favorite page", the page must be pinned on the upper parts of the page list.

- Show blank star when hovered

- Several pages can be favorite pages.

- **Demonstrate**

  - Make any two pages to favorite pages and show that they are pinned

User name	
Search	Page
★ Page3	
Page1	contents
☆ Page2	
When hovered	

Additional Function – Theme and Fonts change

- Make a functionality for changing theme and fonts

- Make a setting button

- In the setting, the user can change the app's theme to light mode or dark mode

- Fonts can be changed to **3** types.
  (Pick any font you want)

- Style change should last permanently

- **Demonstrate**

  - Enter to the appearance tab and change the app's theme to dark mode.

  - Change the font type to the other. (Anythings are OK)

User name
Search
Page1
Page2
Page3

Page

contents

⚙

Additional Function – Theme and Fonts change

Settings	Theme
Theme	▼ Dark
Fonts	

Settings	Fonts
Theme	
Fonts	Font A
	Font B
	Font C

Additional Function – Music Embed

- Make a music button

- If the user clicks a music button, the app shows sidebar which provides music upload button and music control pad

- You can save music on the server whatever way you want(DB or file system) but we recommend you to save it on the file system

- You can use 3rd-party library for rendering music control pad

- Make API points for uploading music file

- There must be 2 buttons.
  - Play and pause button
  - Reset button (Stop music and play from start)

- **Demonstrate**
  - Upload 2 musics
  - Play and pause music

User name	Page
Search	
Page1	contents
Page2	
Page3	

Music

Additional Function – Music Embed

- Make a music button

- If the user clicks a music button, the app shows sidebar which provides music upload button and music control pad

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- You can use 3rd-party library for rendering music control pad

- Make API points for uploading music file

- There must be 2 buttons.
  - Play and pause button
  - Reset button (Stop music and play from start)

- **Demonstrate**
  - Upload 2 musics
  - Play and pause music

User name	Page	Upload
Search	contents	Music 1
Page1		▶ R
Page2		Music 2
Page3		▶ R

Additional Function – Share

- Make a functionality for sharing some pages with other users.

- Make share button

- You need not to implement real-time multi-access to a page.

- The user enters username to share the page.

- **Demonstrate**

  - Login to any user

  - Share any page to other user

  - Logout and log in to the user

  - Show that the page is shared

User name		Share
Search	Page	
Page1	contents	
Page2		
Page3		

Additional Function – Share

User1	Page1	Share
Search		
Page1	Some contents for	
Page2	Shared page	
Page3		

User2	Page1	Share
Search		
Page1	Some contents for	
Page4	Shared page	
Page5		

Additional Function – Note directory

- Make a functionality for creating a note directory

- Make add folder button

- Make add file button in the folder list

- **Demonstrate**
    - Make a new folder
    - Make a new note to the folder

User name	
Search	
Folder 1	+
	Page 1
	Page 2
Page 3	
Add file	

Page

contents

Additional Function – Table of Contents

- Make a functionality for Table of Contents

- Make a Table of Contents button

- The ToC should be located at the sidebar

- This is highly dependent with Text Formatting functionality(MDX).

- **Demonstrate**

    - Clicks the Table of Contents button

    - Show the ToC

User name
Search
Page1
Page2
Page3

Title

Something
 Cons
  text
 Pros
  hi

ToC

Title
• Something
  • Cons
  • Pros

Prisma Studio

- Type 'npx prisma studio'

- Go To 'locahost:5555'

- You can view the current DB status

	id #	title A	content A	done	dueDate
	33	R.I.P.	Quincy Jones	false	2024-11-03T00:
	34	Wash Dishes	DO IT RIGHT NOW	false	2024-11-05T10:
	35	PPT	Too Long	true	2024-11-05T03:

Todo

Filters None   Fields All   Showing 3 of 3   Add record

How to view your DB file

- Install SQLite Viewer in VS Code

How to view your DB file

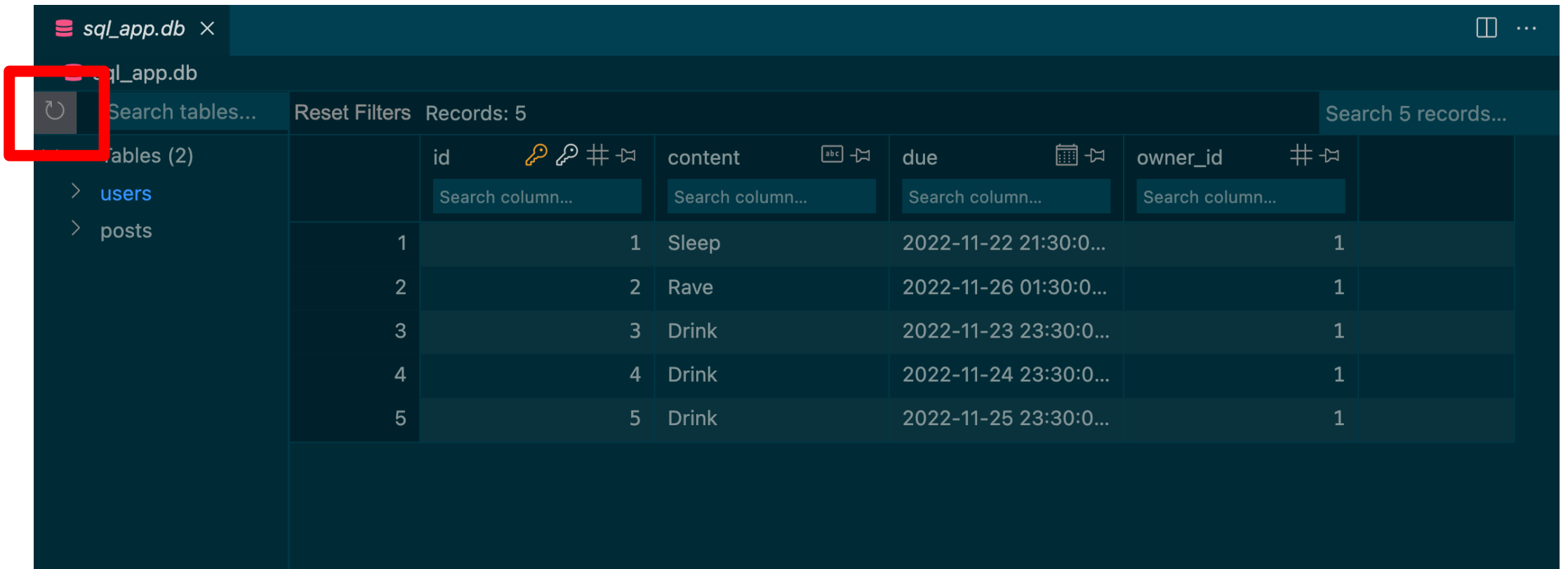- Click the sql_app.db (or any other sqlite db file)

- Click open anyway
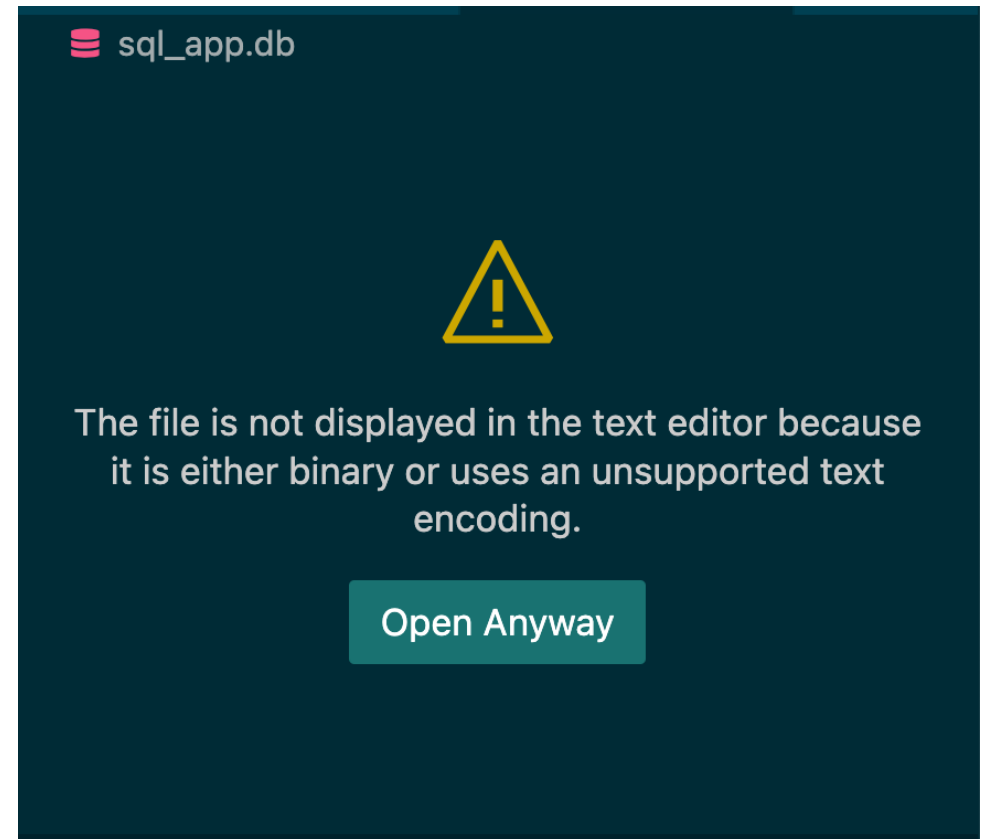
How to view your DB file

- Click SQLite Viewer
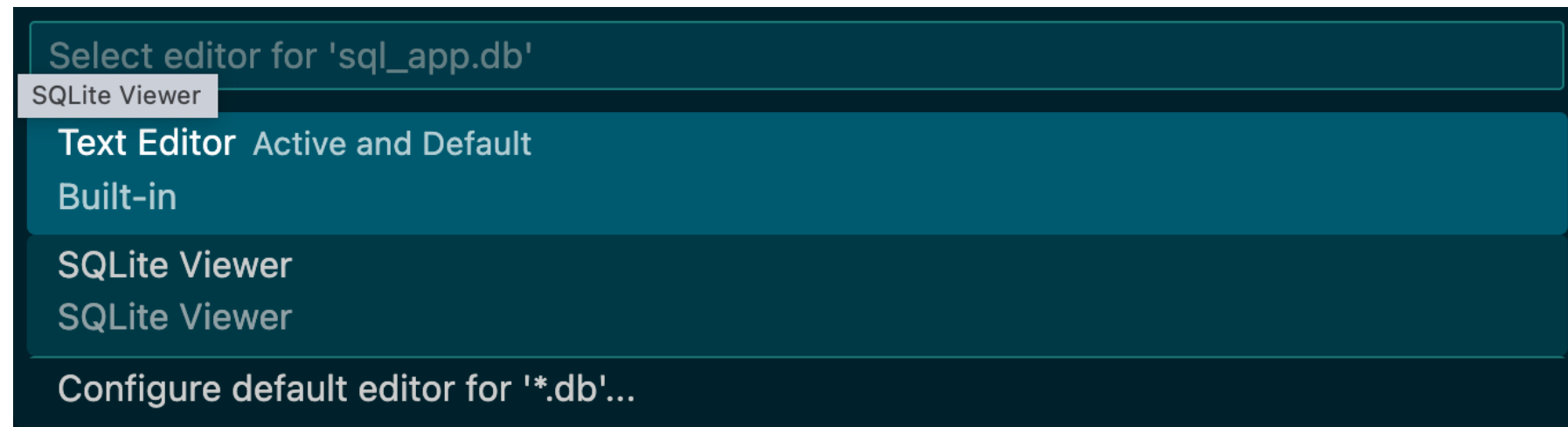
How to view your DB file

- You can see the DB

- To reload the new data, click update button