Enrolling to CS50 Course - Introduction to Databases with SQL and Submitting a Problem Set

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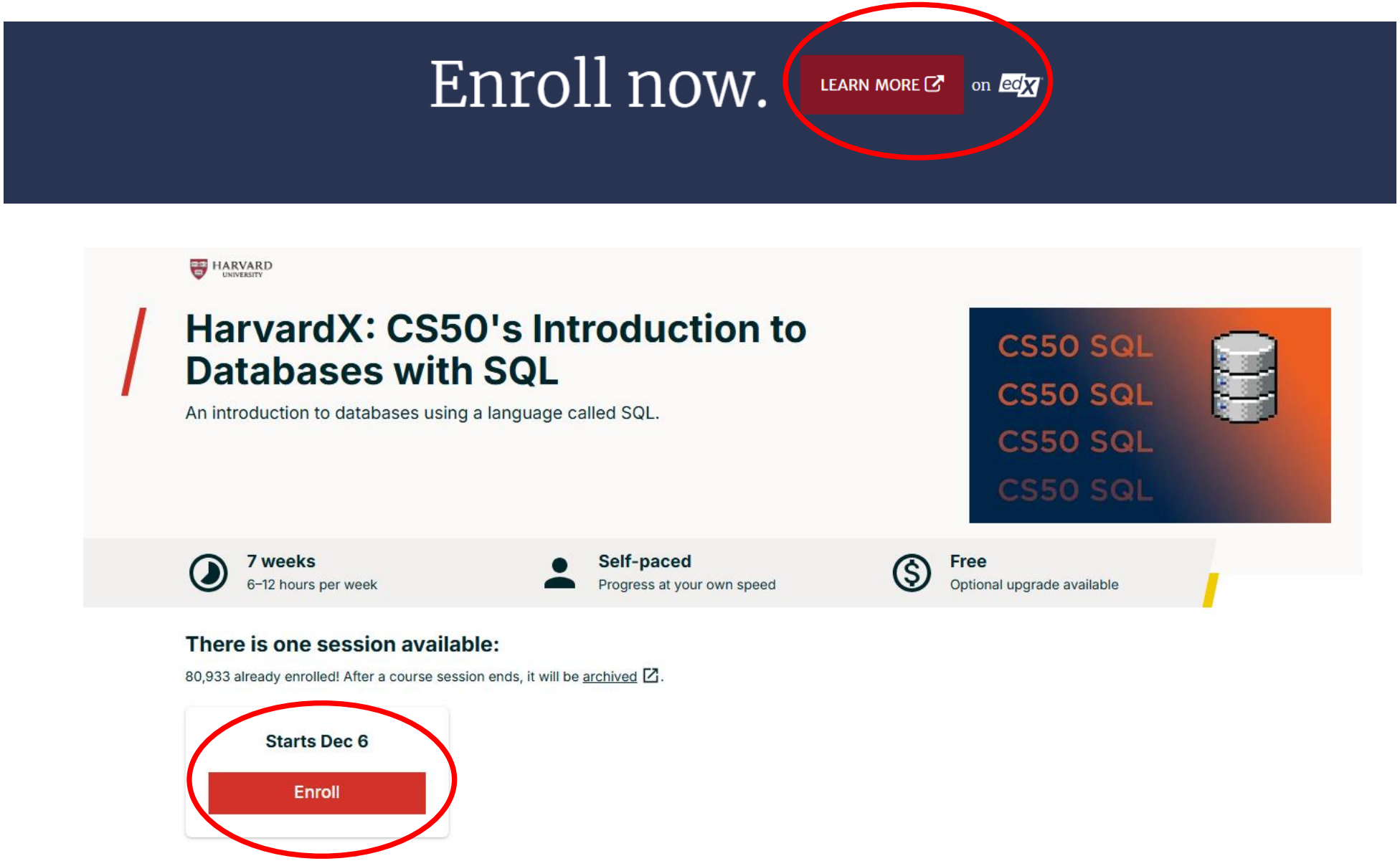
First Enroll to the Course

- Go to https://pll.harvard.edu/course/cs50s-introduction-databases-sql

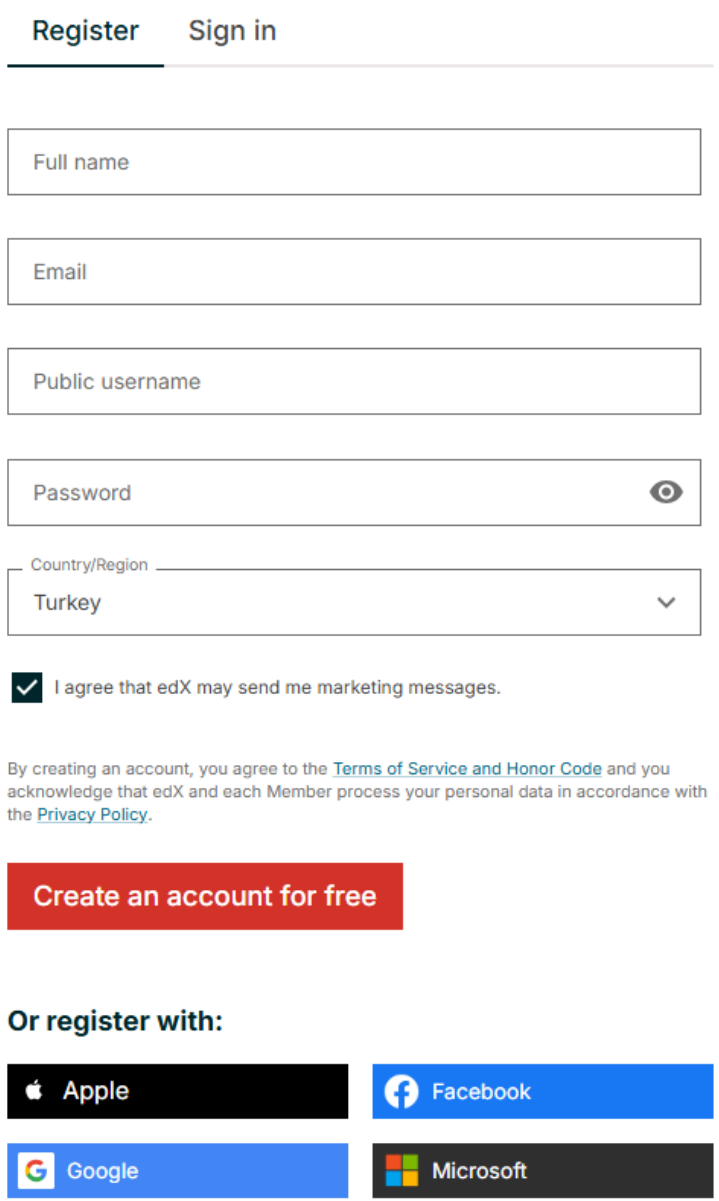
Click LEARN MORE and on the new page opened, click ENROLL!



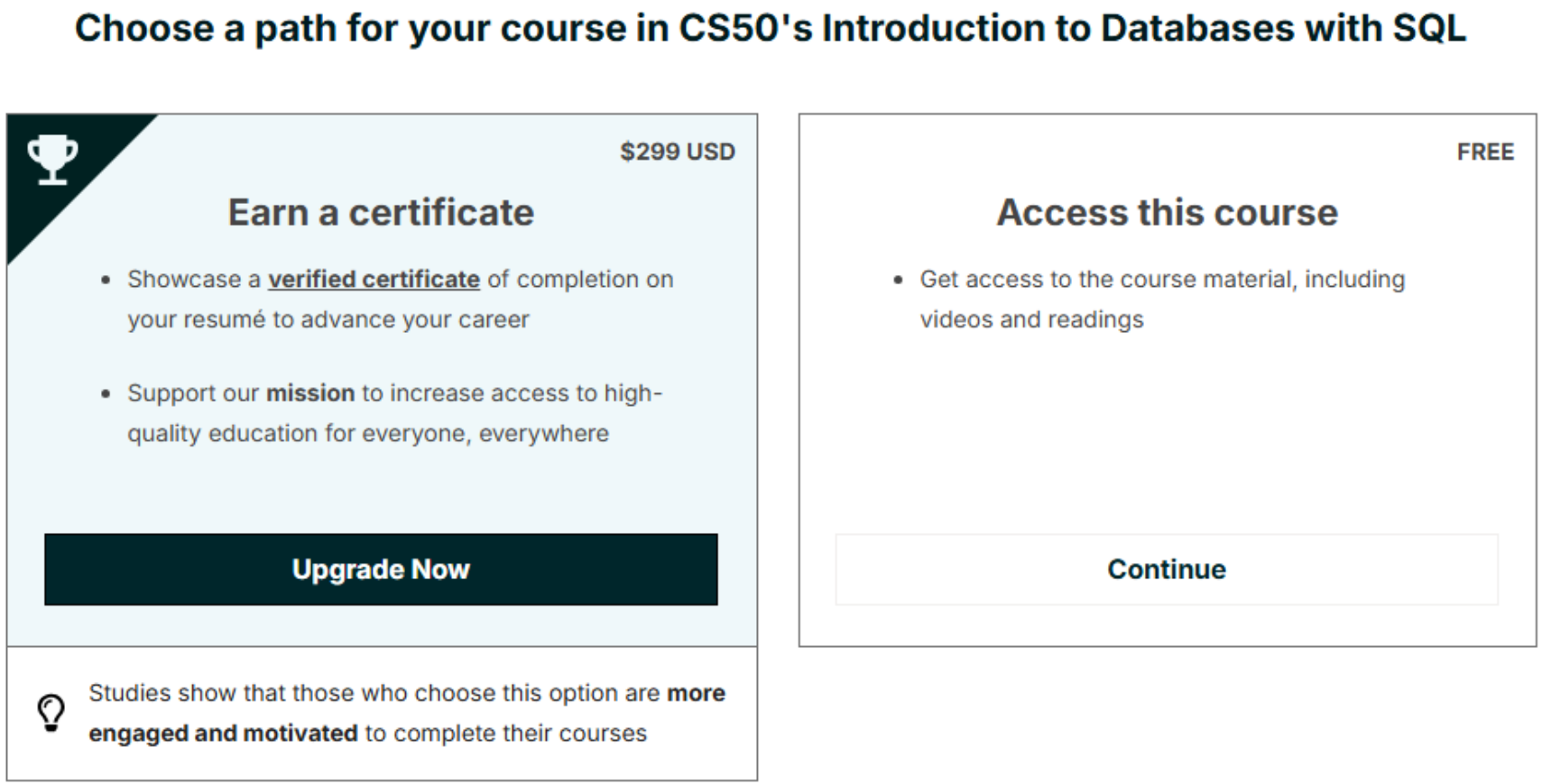
edX Platform

- Enroll will direct you to the edX platform. You can see course materials and submit problem sets using edX!

- If you already registered to edX, just login. Otherwise, you need to register. Register with ciu student email addresses!



After registering and login to edX, click continue under ‘Access this course’



Access to CS50 Course Lectures and Problem Sets

- In the lab, we will submit **Problem Set 0 – Cyberchase problem set** (in the week of 16-20 December)

1. Watch Week 0's lecture on Querying. Submit Problem Set 0.
2. Watch Week 1's lecture on Relating. Submit Problem Set 1.
3. Watch Week 2's lecture on Designing. Submit Problem Set 2.
4. Watch Week 3's lecture on Writing. Submit Problem Set 3.
5. Watch Week 4's lecture on Viewing. Submit Problem Set 4.
6. Watch Week 5's lecture on Optimizing. Submit Problem Set 5.
7. Watch Week 6's lecture on Scaling. Submit Problem Set 6.
8. Submit the Final Project.

And if you have any questions, start a discussion with classmates!

▶ Looking for other courses to take before or after this one?

▶ Looking for accreditation, transfer credit, and/or TA support?

Problem Set 0 – First preparation!

Problem Set 0

Collaboration on problem sets is not permitted except to the extent that you may ask classmates and others for help so long as that help does not reduce to another doing your work for you, per the course's policy on **academic honesty**.

What to Do

Preparation

Before you begin this week's problems, you'll need to take a few preparatory steps. Rest assured that future weeks will have a much faster setup!

1. Visit this link, log in with your GitHub account, and choose **Authorize CS50**
2. Check the box indicating that you'd like to grant course staff access to your submissions, and click **Join course**.
3. Log into cs50.dev using your GitHub account
4. Run `update50` in your codespace's terminal window to ensure your codespace is up-to-date and, when prompted, click **Rebuild now**

Problems

1. Submit Cyberchase
2. Submit one of:
   - 36 Views
   - Normals
3. Submit Players

If you submit both 36 Views and Normals, we'll record the higher of your two scores.

When to Do It

By Thursday, January 1, 2026 at 6:59 AM GMT+2.

Cyberchase problem set (https://cs50.harvard.edu/sql/2024/psets/0/cyberchase/)

https://cs50.harvard.edu/sql/2024/psets/0/cyberchase/

Interested in a verified certificate or transfer credit and accreditation?

CS50's Introduction to Databases with SQL

OpenCourseWare

Donate

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CS50x Puzzle Day 2025...
Zoom Meetings

CS50.ai
Ed Discussion for Q&A
Visual Studio Code

What's new for 2024?

Cyberchase

Problem to Solve

Welcome to Cyberspace! *Cyberchase* is an animated, educational kid's television series, aired by the United States' Public Broadcasting Service (PBS) since 2002. Originally designed to "show kids that math is everywhere and everyone can be good at it," the world of *Cyberchase* centers on Jackie, Matt, and Inez as they team up with Digit—a "cybird"—to stop Hacker from taking over Cyberspace and infecting Motherboard. Along the way, the quartet learn math, science, and problem-solving skills to thwart Hacker in his attempts.

In a database called `cyberchase.db`, using a table called `episodes`, chase answers to PBS's questions about *Cyberchase*'s episodes thus far.

Demo

```
$ sqlite3 cyberchase.db
sqlite>
```

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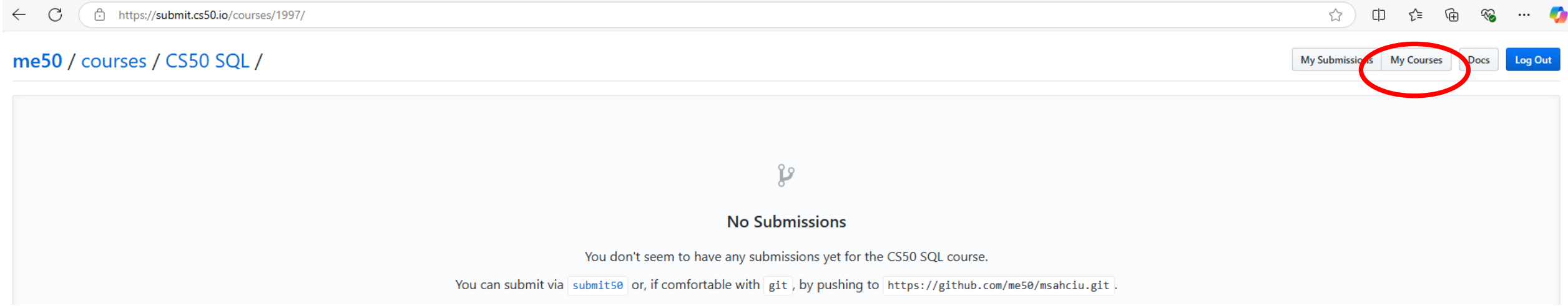
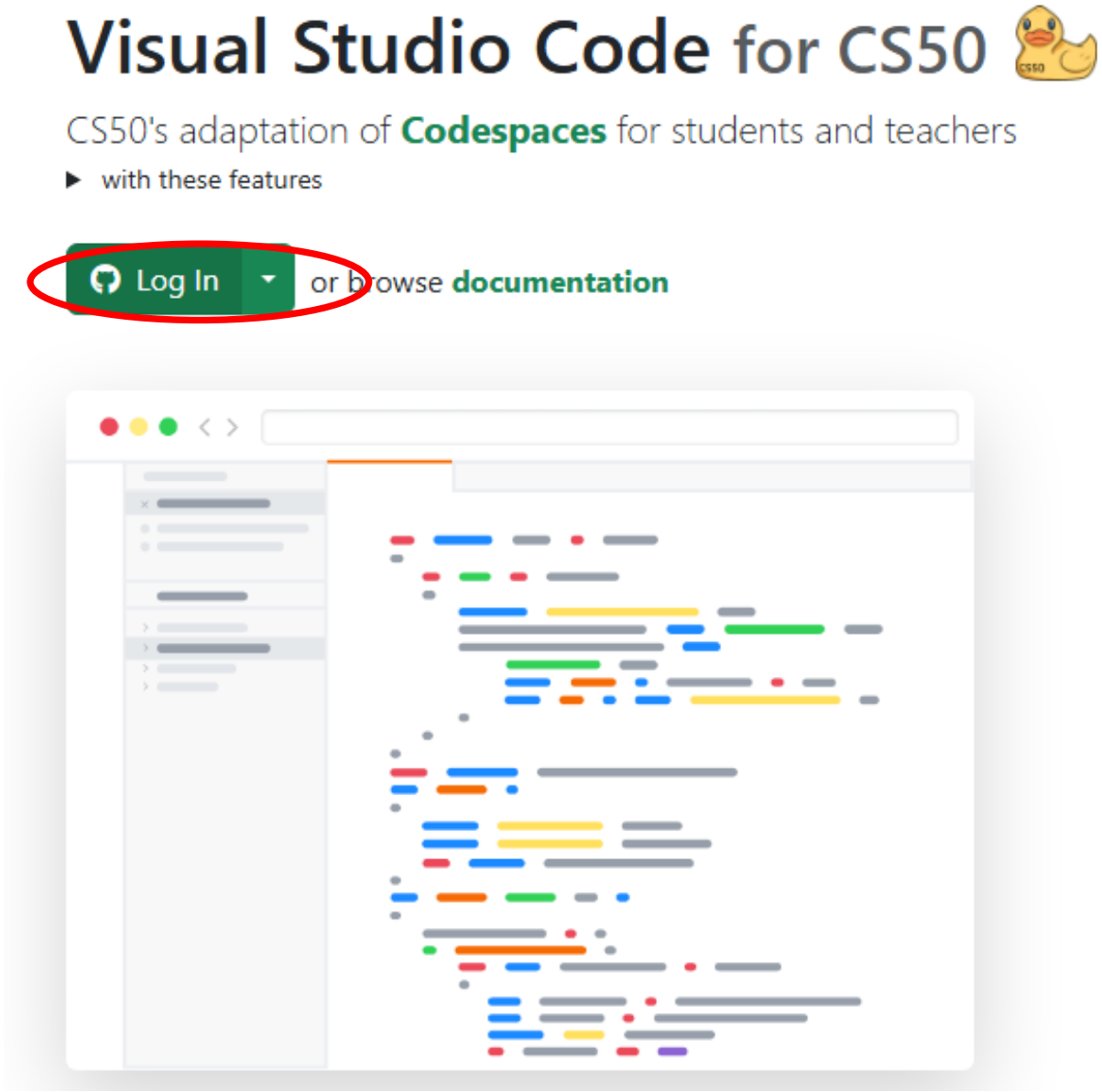
- **Step 1 - Register and then Login to GitHub using 'this link'**
- **Step 2 -** After logining to GitHub, it will ask you to grant access to CS50. Confirm it (I cannot see these steps since I have already done it before)
- Then you will see the page below. Click my courses!

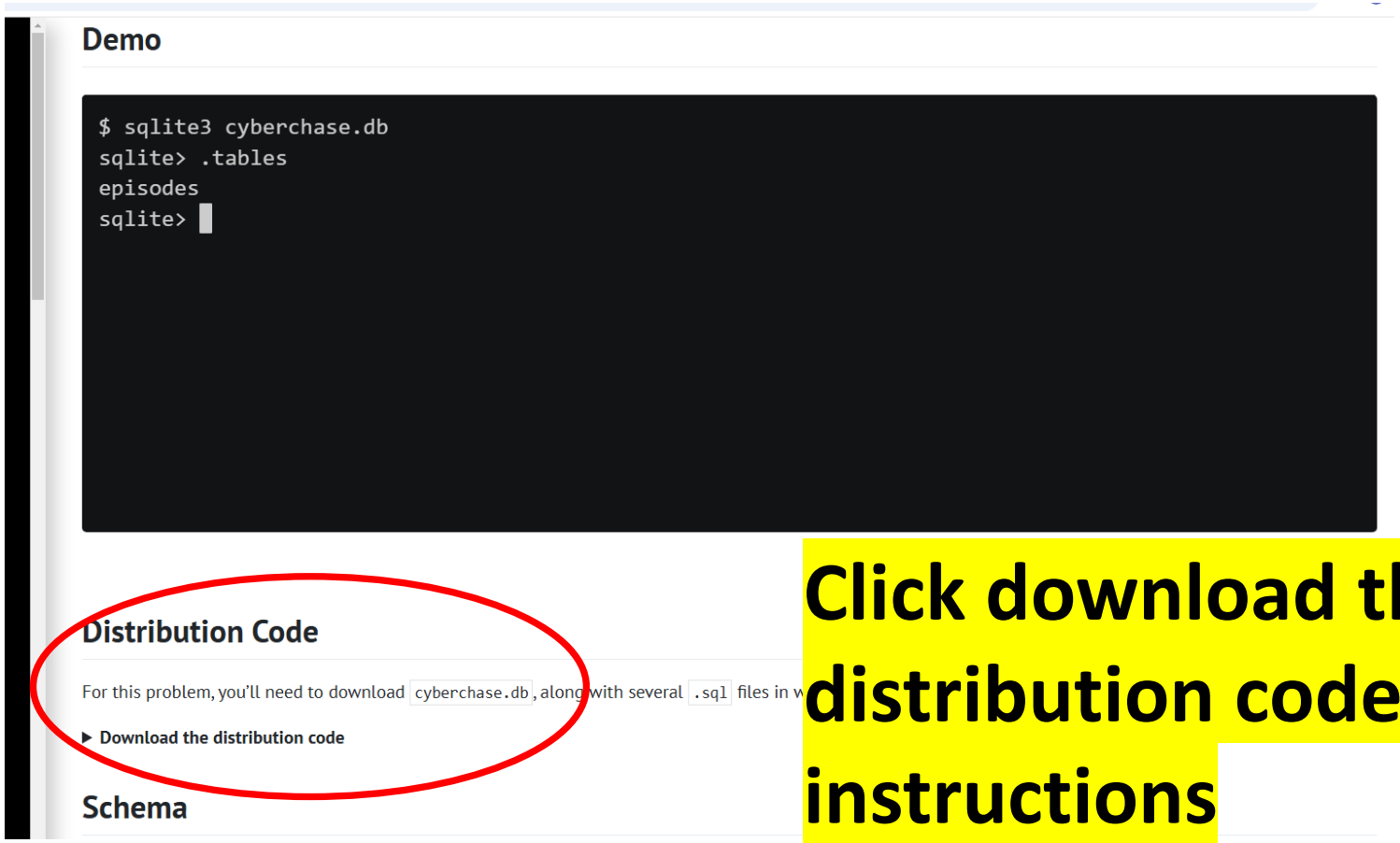


- **Step 3 – Login to cs50.dev** using your GitHub account



After you logged in, initially cyberchase.db and sql files cannot be seen!

- Follow the steps on cyberchase problem set as follows:



Click download the distribution code for instructions

Go and login to codespaces (cs50.dev)

- In the terminal below, copy and paste these commands!

```
$
```

Next execute

```
wget https://cdn.cs50.net/sql/2024/x/psets/0/cyberchase.zip
```

in order to download a ZIP called `cyberchase.zip` into your codespace.

Then execute

```
unzip cyberchase.zip
```

to create a folder called `cyberchase`. You no longer need the ZIP file, so you can execute

```
rm cyberchase.zip
```

and respond with "y" followed by Enter at the prompt to remove the ZIP file you downloaded.

Now type

```
cd cyberchase
```

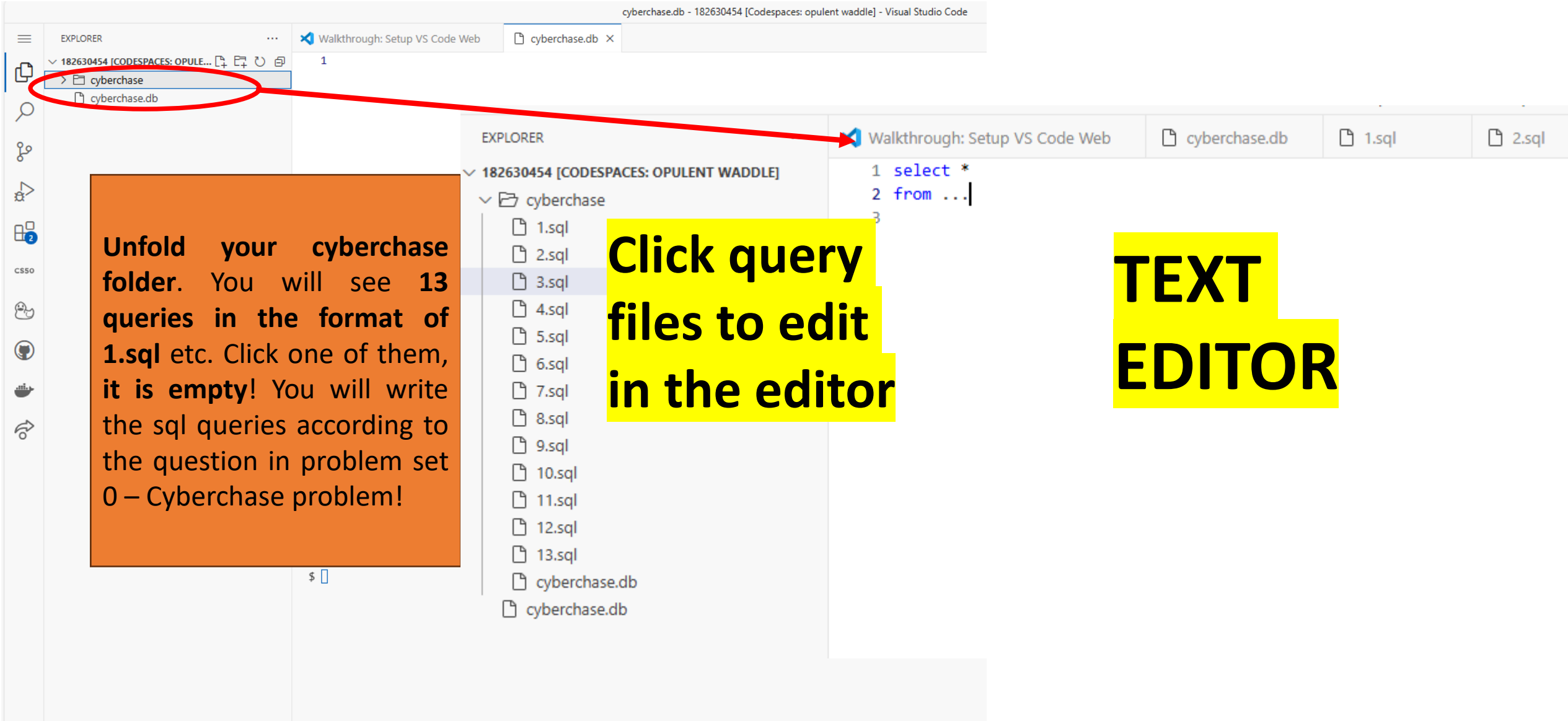
followed by Enter to move yourself into (i.e., open) that directory. Your prompt should now resemble the below.

```
cyberchase/ $
```

If all was successful, you should execute

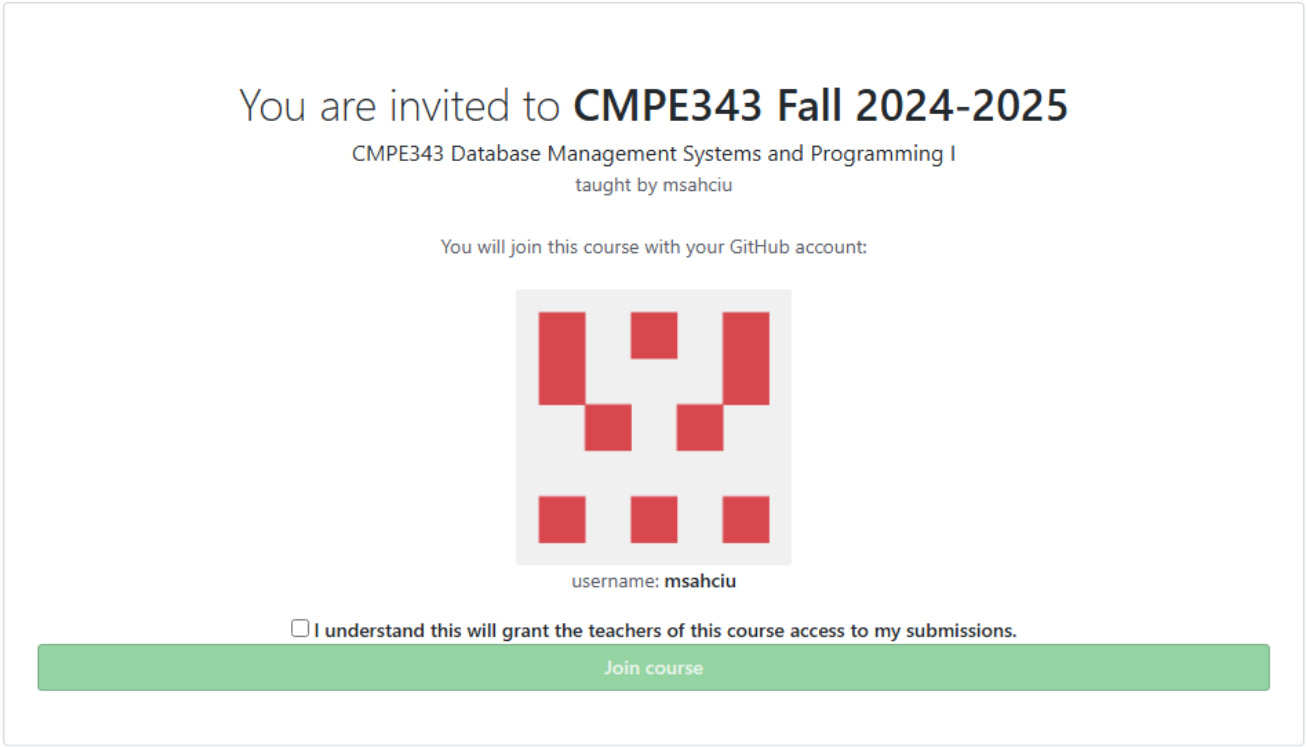
```
ls
```

Now you can access to cyberchase.db and write your SQL queries to the given . sql files!



Before writing queries, finally, register to CMPE343 CS50 course to finalize all process!

- Click to register CMPE343 CS50 course below so that I can see your submissions!
- https://submit.cs50.io/invites/3ab2c078e26e4db2984b94f264e84ffe



Now write your queries in codespaces (cs50.dev)

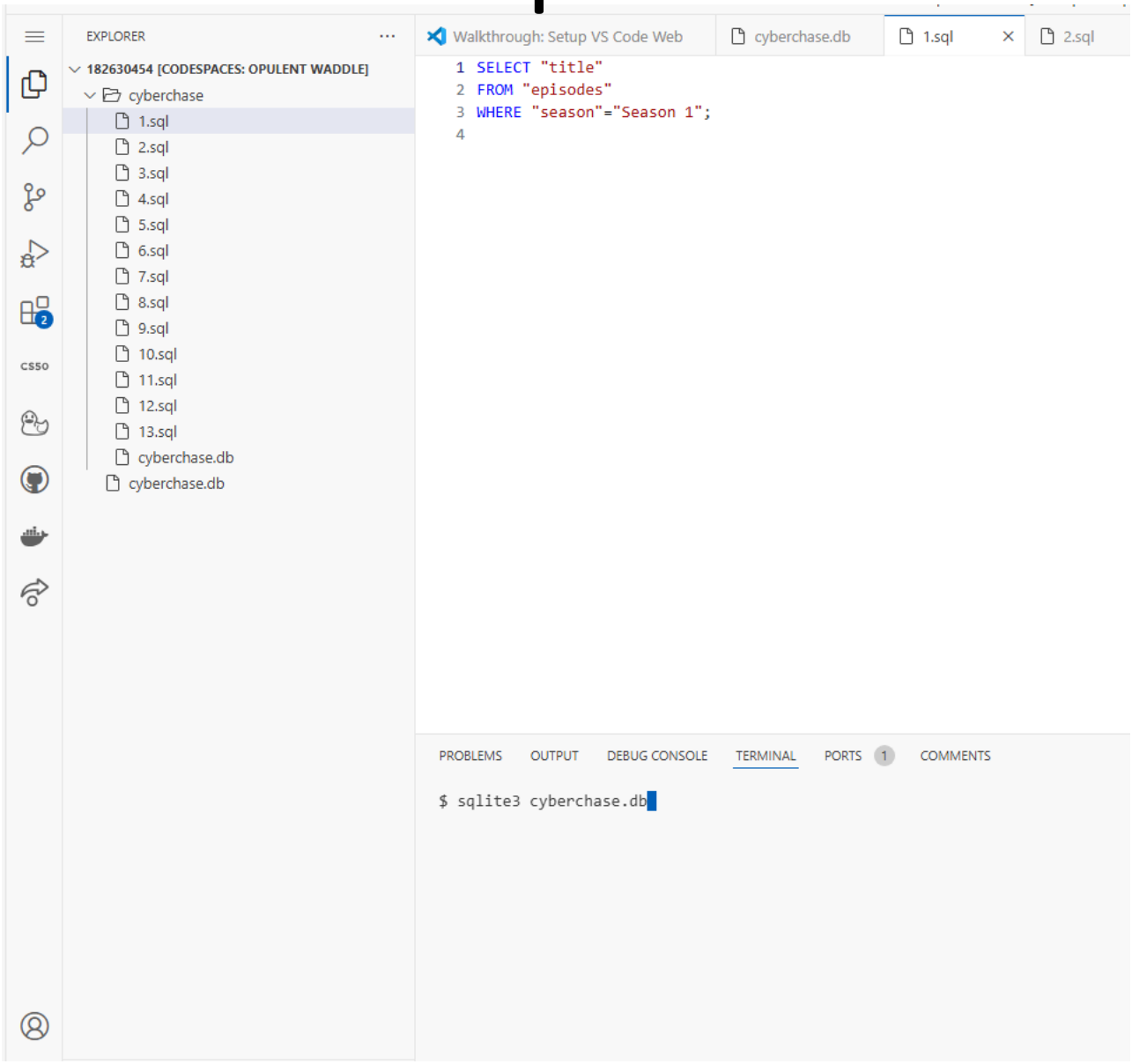
- Edit 1.sql in the editor. Use the answer at the right!
- Then at the terminal below, first update cs50 by writing and using cyberchase.db

$ update50

$ sqlite3 cyberchase.db

Will change the folder to sqlite $

- Then edit the queries and test the results using the instructions on https://cs50.harvard.edu/sql/2024/psets/0/cyberchase/



Checking and submitting your queries

- After writing 1.sql in the terminal write the following command (.quit)
- **Sqlite $ .quit**
- **That will change to $**
- **In the $, write command cd cyberchase**
- **$ cd cyberchase**
- **Now,** you can check the correctness of your queries using following:
- **cyberchase $ check50 cs50/problems/2024/sql/cyberchase**

- **Smiley faces indicate that your query is correct.**
- **Continue writing the rest of the queries in the lab (16-20 December)!**

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 2 COMMENTS

```
$ cd cyberchase
cyberchase/ $ check50 cs50/problems/2024/sql/cyberchase
Connecting.....
Authenticating...
Verifying.....
Preparing.....
Uploading......
Waiting for results.....................
Results for cs50/problems/2024/sql/cyberchase generated by check50 v3.3.11
:) SQL files exist
:) 1.sql produces correct result
:( 2.sql produces correct result
    Error when executing query: missing statement
:( 3.sql produces correct result
    Error when executing query: missing statement
```

Finally, after completing all queries “in the lab”, submit the problem set

- **cyberchase $ submit50 cs50/problems/2024/sql/cyberchase**

- **MAKE SURE YOU REGISTER TO CMPE343 COURSE IN CS50 BEFORE SUBMITTING!**