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CS 3200 - Database Design - Fontenot

Mini HW 00 - Getting Set Up

Early EC Due Date: Sept 8 @ 11:59pm EST to GradeScope

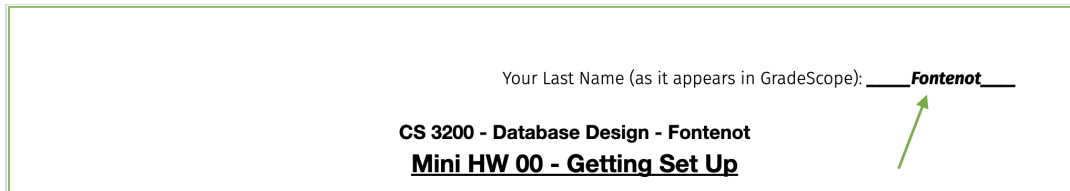
Regular Due Date: Sep 10 @ 11:59pm EST to GradeScope

Credit:

- The points you earn on this Mini HW 00 assignment will become **Extra Credit** for Exam 1.
- You can earn a total of 7 points towards Exam 1 by properly completing the questions below and submitting the assignment on-time (Sep 10 @ 11:59pm EST).
- You can earn an additional 3 points towards Exam 1 by submitting this assignment by the early deadline (Sep 8 @ 11:59pm EST).

Directions:

1. In Google Drive, from the **File Menu**, save a copy of this document to your Google Drive or download a Word Document format of the assignment doc.
2. Update your document header to include your last name as shown in this screenshot:



3. Complete the steps and answer the questions on the subsequent pages. Where screenshots are requested, please do not take pictures of your laptop screen with your phone. (See [this tutorial](#) for Macs. See [this tutorial](#) for Windows)
4. Save as or Export to PDF
5. Upload your assignment to GradeScope by the deadline. **It is your responsibility to associate the assignment questions with the correct page in your PDF in the GradeScope interface** (See [this tutorial](#) for more info).

Goals:

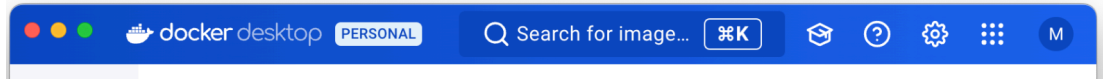
- Join Slack and complete your profile
- Properly install Docker Desktop and MySQL
- Properly install JetBrains DataGrip

Docker Desktop and MySQL

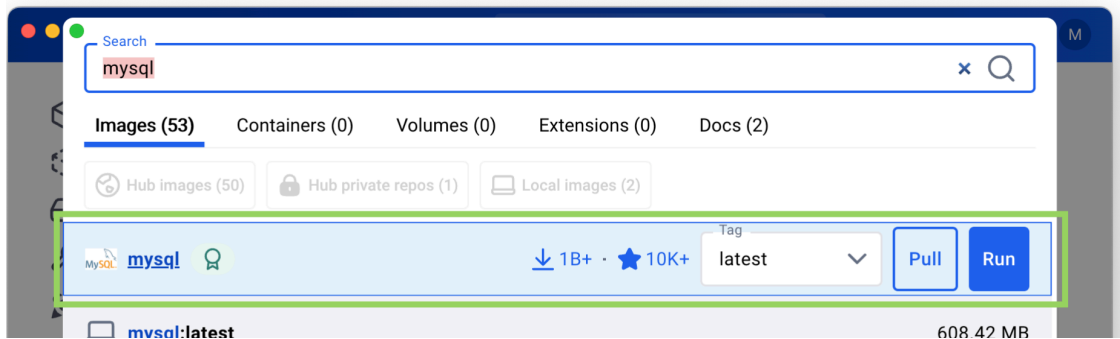
In CS 3200, we will primarily use MySQL 8 Community Edition, a popular relational database management system. We will run MySQL through Docker Desktop, a containerization platform you can run on your laptop.

Do the following:

- Install Docker Desktop.
 - [Instructions for Windows](#) - I recommend choosing the WSL-2 backend option. Under the section “Install Docker Desktop on Windows”, follow the “**Install Interactively**” steps, not “Install from the Command Line” steps.
 - [Instructions for Mac](#) - Follow the “Install Interactively” steps, not the “Install from the Command Line” steps.
- Start Docker Desktop and accept the license agreement.
- Pull the MySQL Image and run it.
 - In the window title bar of Docker Desktop, you’ll see a search bar.

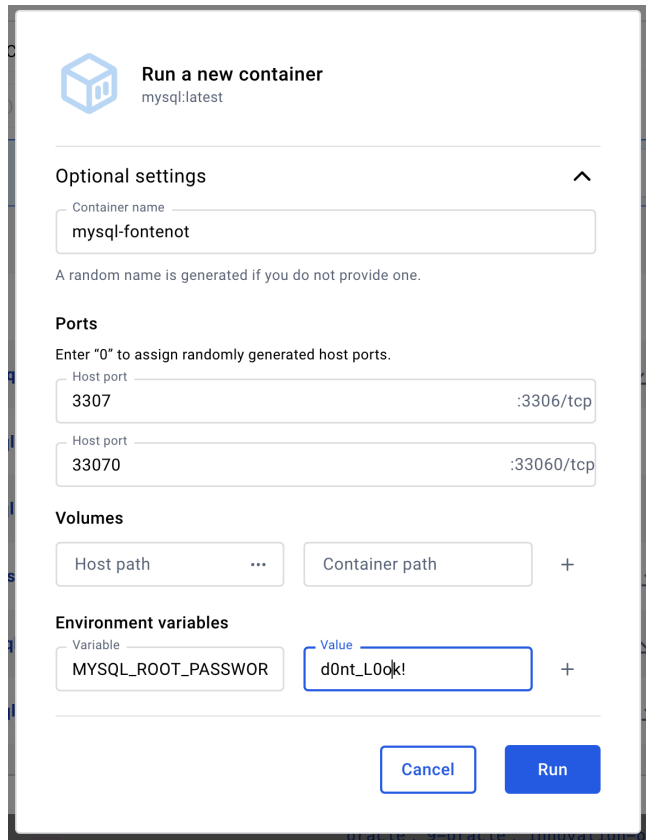


- Search for **MySQL**. You should see something similar to the following screenshot.

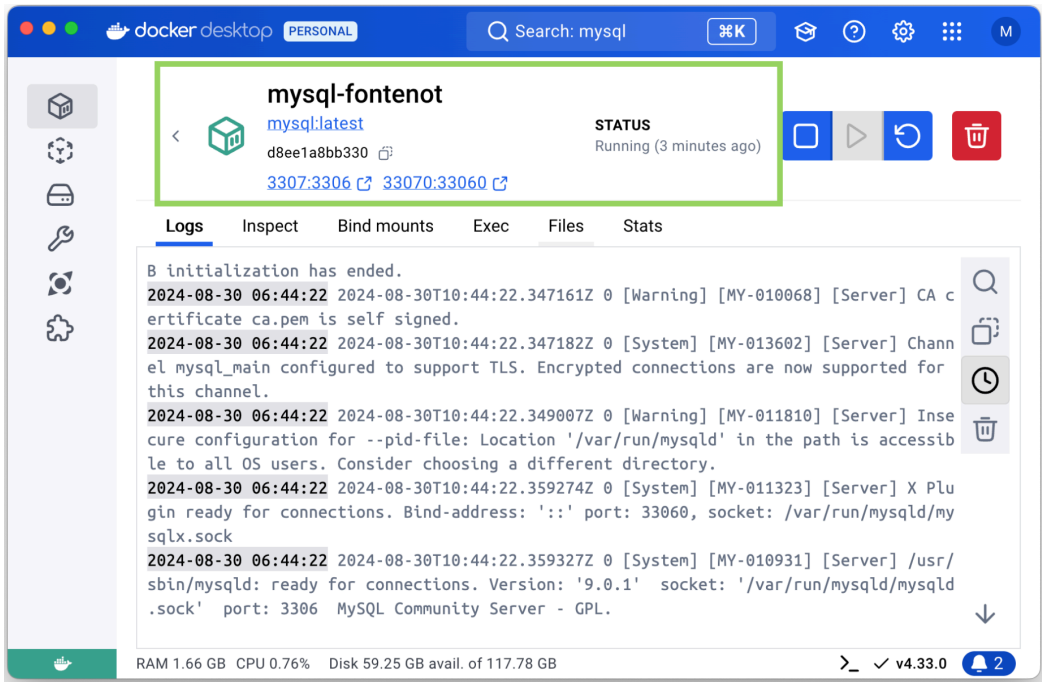


- Click **Run**. (Do NOT click run again on the pop up until you finished the next steps)
- In the popup, expand *Optional Settings*. Fill in the following information:
 - Container Name: **mysql-<your last name>** (Of course, replace <your...> with your actual last name. Make sure to remove the < and > as well.)
 - Host port (the first one): **3307**
 - Host Port (the second one): **33070**
 - Environment Variables:
 - Variable: **MYSQL_ROOT_PASSWORD** (type that literally, don't replace with a password)
 - Value: *Put some password that you will remember. It doesn't need to be long and complicated. DO NOT use a password that you use anywhere else, though.*
 - See the screenshot on the next page for an example.
- After you've filled out everything, click **Run**. Downloading the MySQL Image and starting the container may take as long as a couple minutes.

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- Once you click Run, you should be taken to the Container logs, which look like this.



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Questions:

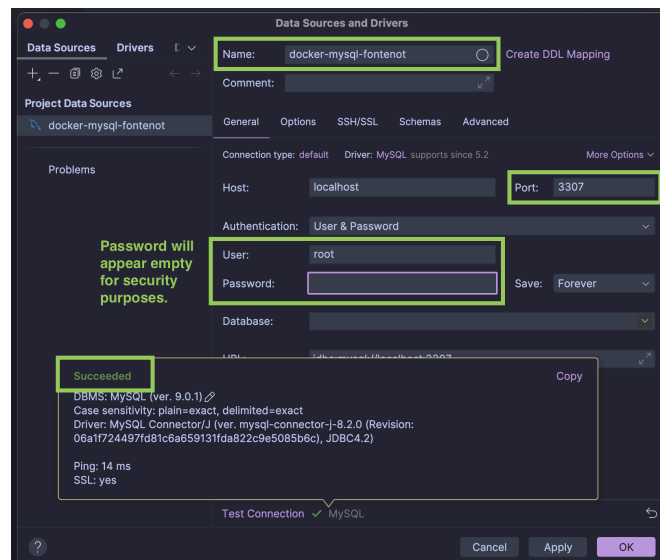
3. Take a screenshot of Docker Desktop showing the logs. **Make Sure** the entire window is visible, especially the part outlined in **Green** in the last screenshot on the previous page. Paste the screenshot below. [3 points]

JetBrains DataGrip:

To interact with database systems, we will use DataGrip, a developer tool by JetBrains.

Do the Following:

- Apply [here](#) for a free Educational Licence from JetBrains.
- Download and install [JetBrains' DataGrip](#). Find more info at <https://www.jetbrains.com/datagrip/>.
 - If you have to wait for the educational license to be processed, you can still use DataGrip free for 30 days in the meantime.
- Make a folder named **24f-cs3200-<last_name>** somewhere on your computer (replace <last_name> with your actual last name). Take note of where you've created it in the filesystem.
- Launch DataGrip.
- Create a new project and save it to the folder you created above.
- Create your first DataGrip DataSource and connect it to MySQL.
 - From the file menu, choose **New > DataSource > MySQL > MySQL**. This will show the **Data Sources and Drivers** modal. Fill in the following data (leave everything else as is):
 - Name: **docker-mysql-<last_name>**
 - Port: **3307**
 - User: **root**
 - Password: *put whatever you provided as the password when creating the MySQL container in Docker Desktop.*
 - Above the Cancel/Apply/OK buttons, you may see a message asking you to install or update a particular driver. You need to allow this installation to take place.
 - Click **Test Connection**. You should get a "Succeeded" message. See screenshot below for an example of what everything should look like.
 - Take a screenshot of the **New Data Source** modal showing the "succeeded" message. and paste it under the question below.
 - Click the OK button to save the Data Source. You can close DataGrip at this point.



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Question:

4. Take a screenshot of the New Data Source modal showing that **Test Connection** was successful. The other information outlined in green in the previous screenshot must also be visible. Paste the screenshot below.