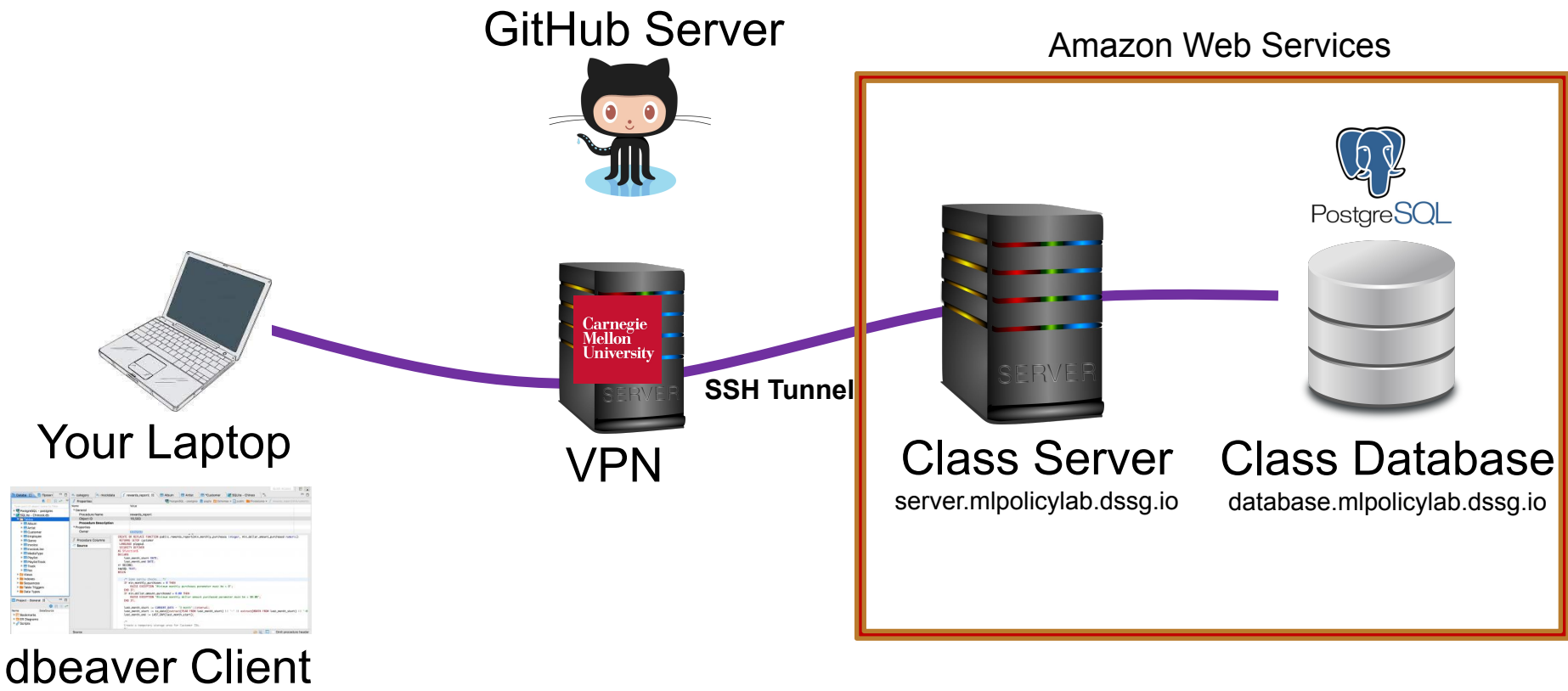
DATABASE ACCESS
via DBeaver GUI

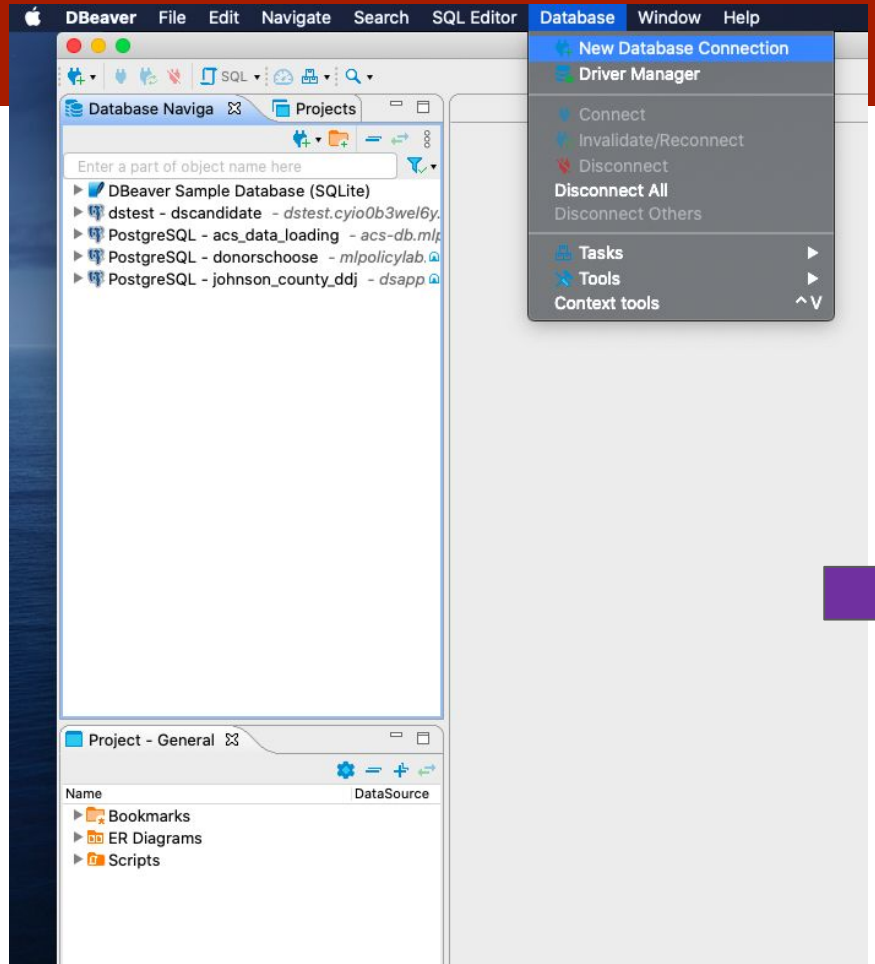
Class Infrastructure Elements:
When you use dbeaver to connect to the database

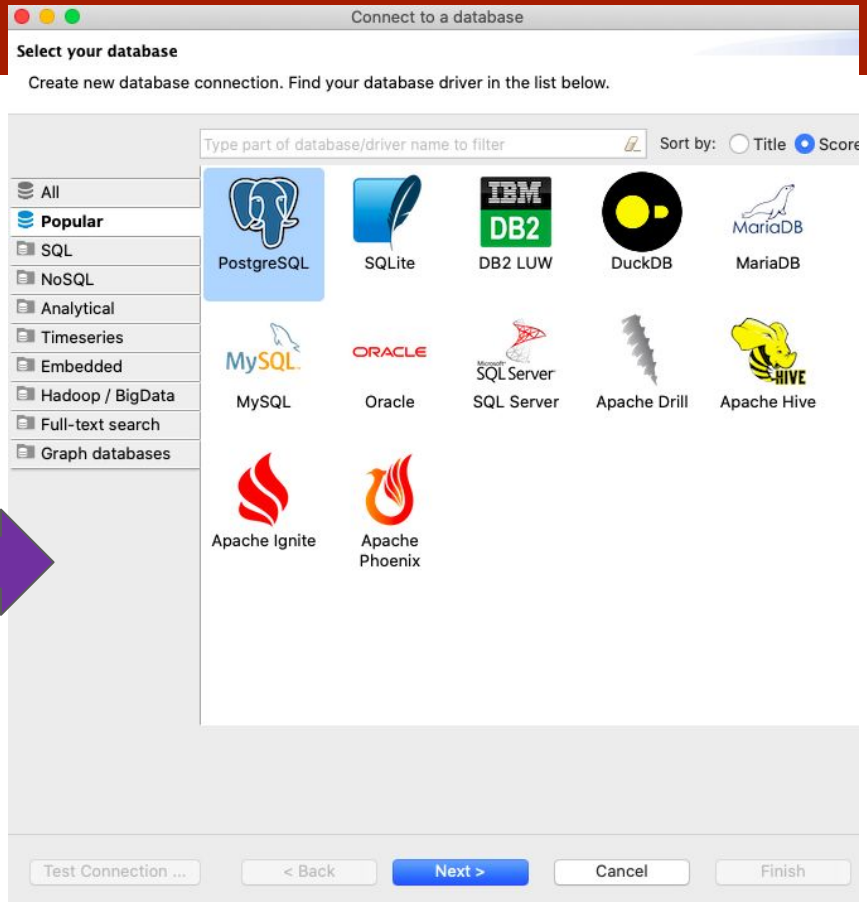


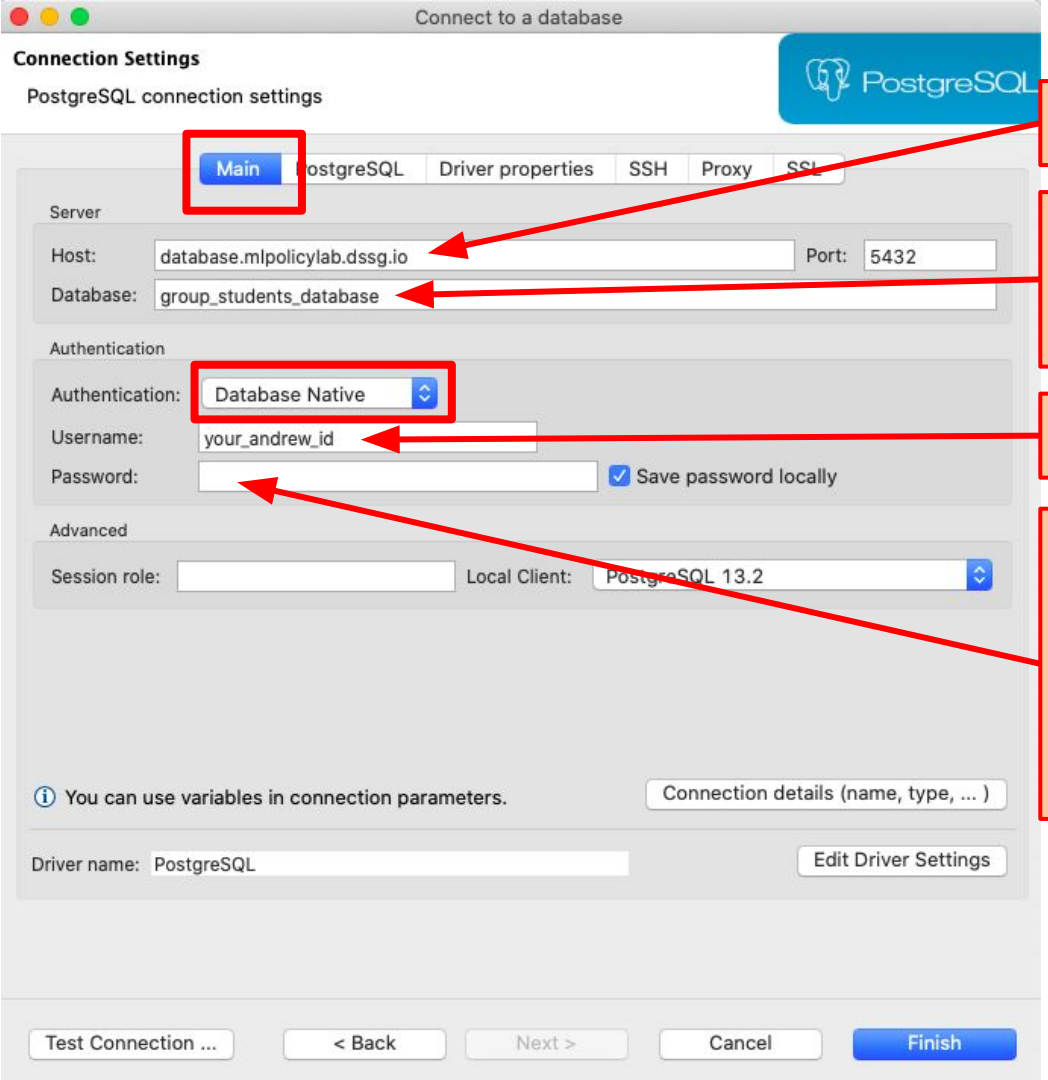
Getting DBeaver

- https://dbeaver.com/edition/community/
- Install the community edition (because it’s free)
- Install any drivers it’s asking you to install

Create a new connection and select postgres





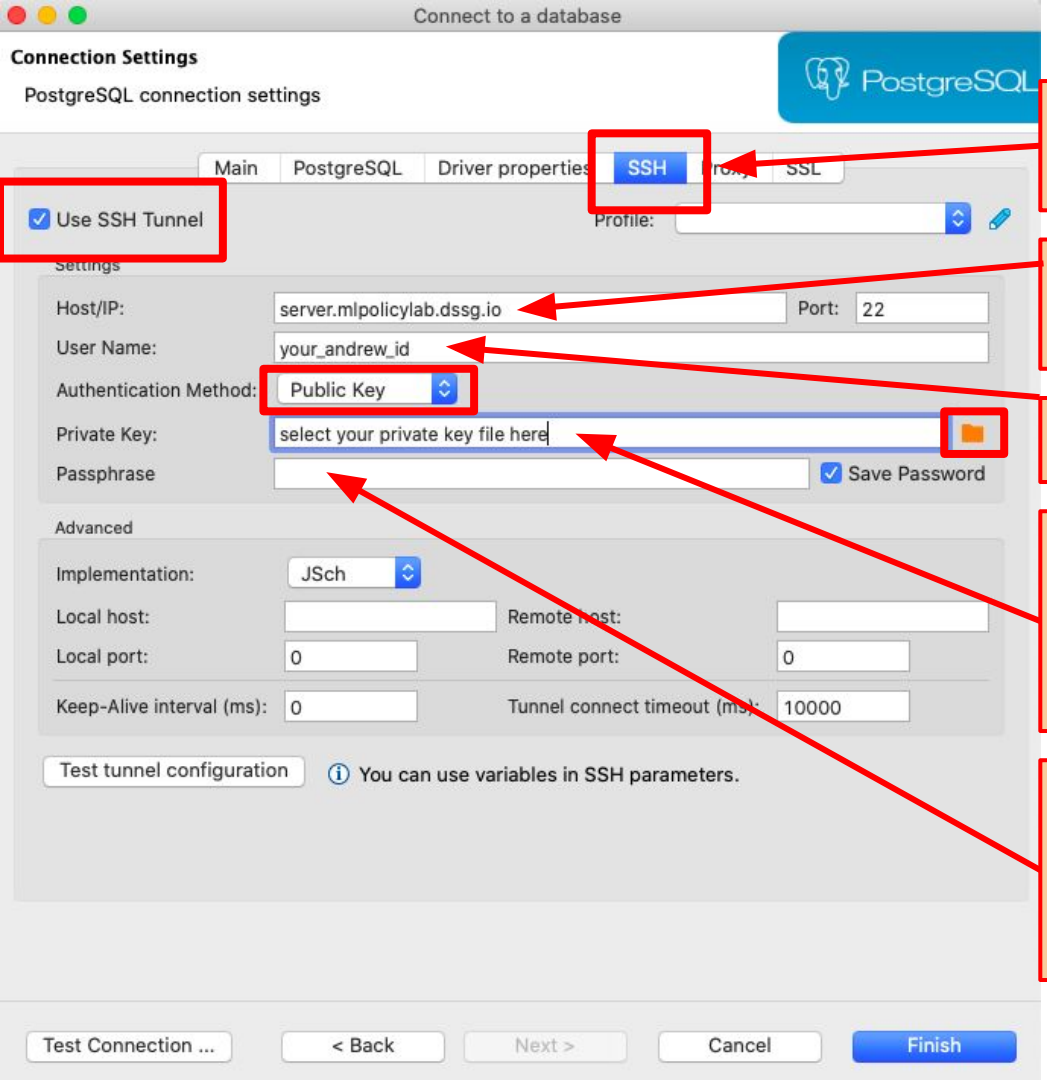


This is the *database server* we are using all semester

This is the test database name for now. Your project will have a different database name so you'll need to replace this later.

Enter your andrew id here

This is your *database* password. We have stored it in a file called **.pgpass** and placed it in your directory on the server - it will be a long string with lots of words combined. When you log on to the server through ssh, type cat .pgpass to see it (it will start after your andrew id in .pgpass, separated by a colon)



You need to “tunnel” through the class server to get to the database so this tab needs your server information

This is the *class server* we are using. – same as the one you ssh’ed to earlier

Enter your andrew id here

You can directly enter the path to your private key file or navigate to it using the folder icon. This will typically be ~/.ssh/id_rsa for mac/linux or C:\Users\username\.ssh\id_rsa for windows

When you generated your ssh key, you may have entered a passphrase to protect it. If you did, you will need to enter it here. If you left it blank, you can leave it blank here.

Debugging

If you get an error like invalid privatekey: [B@7696c31f:

- You may need to install a different SSH package called "SSHJ" -- under the Help menu, choose "Install new Software" then search for SSHJ and install the package (you'll need to restart dbeaver). After restarting, choose “SSHJ” in the drop-down under advanced (should be labeled either ”Implementation” or “Method”) when setting up the tunnel

- If that doesn’t work, you can try changing the format of your private key: go to the directory where your private key is and type ssh-keygen -p -m PEM -f id_rsa and try dbeaver again

Were you able to connect?

Try some commands:

```
SELECT 1+1 AS foo;
```

or

```
SELECT CURRENT_USER;
```