Installing SQL (Windows)

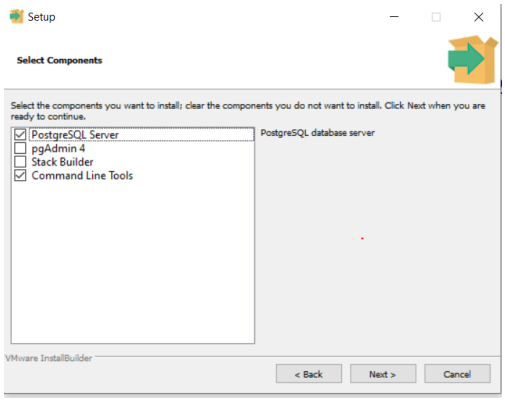
1. Download the latest PostgreSQL version for Windows:

https://www.enterprisedb.com/downloads/postgres-postgresql-downloads

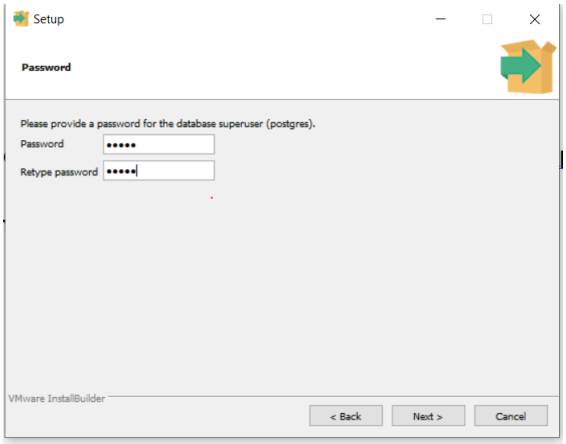
2. Click on the "PostgreSQL" installer from the downloads page:

    a. Select the installation directory
    b. You only need the basics for QTM 151

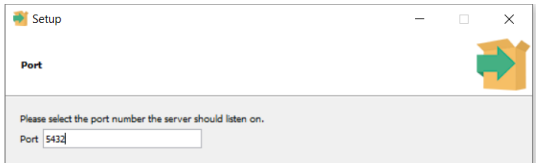
    Note: "pgAdmin" is a flexible tool to manage the SQL server. This includes more options than we will need for QTM 151, but keep it in mind for more advanced projects. The stack builder is used to install additional tools.



    c. Select the password for the administrator. For learning purposes, we suggest that you used the simple password "12345". This is the one we will use when presenting examples.



d. Select the port. We will use "5432" (the default) in the class examples. This is related to access to the server.



e. If asked, select the default locale.

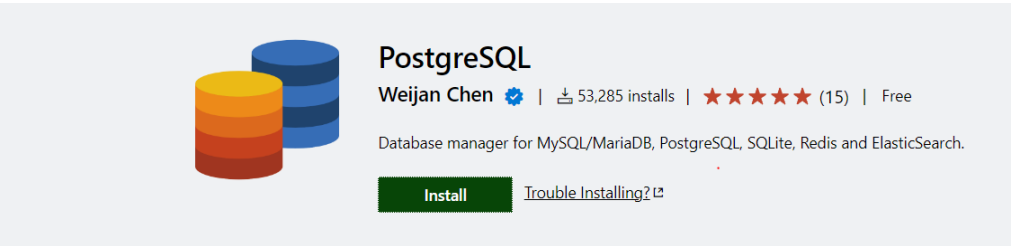
NOTE: These options will create a local server in your computer. In the options above we specified the connection details. This local server will save all the datasets internally. It starts off empty, and we will need to enter data later.

3. Install the "PostgreSQL" extension for Visual Studio Code.

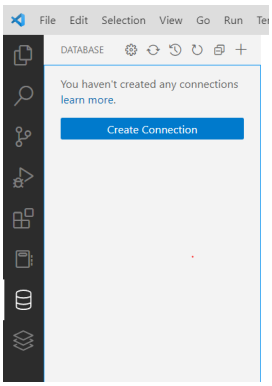
What does it do: It will allow us to use SQL using the same software that we use to program in Python.

(a) Go to the marketplace website, click on install, then follow instructions:

https://marketplace.visualstudio.com/items?itemName=cweijan.vscode-postgresql-client2



(b) Once it's installed you will see two additional buttons. These are for importing multiple databases of different types, SQL and Non-SQL databases, respectively. We will only need the first one, which looks like a cylinder.

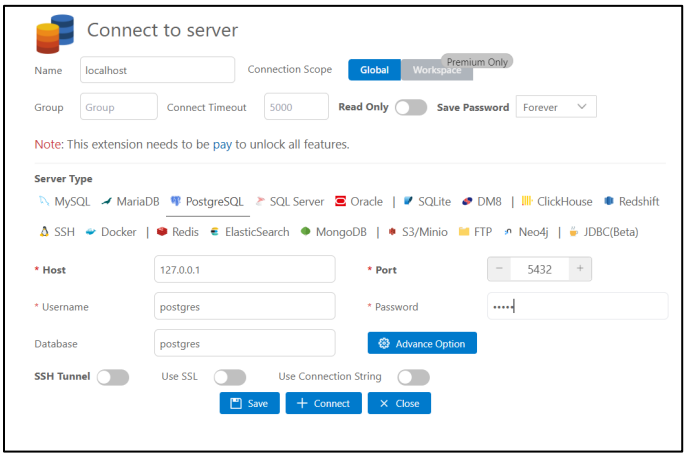


(c) Click on create a connection:

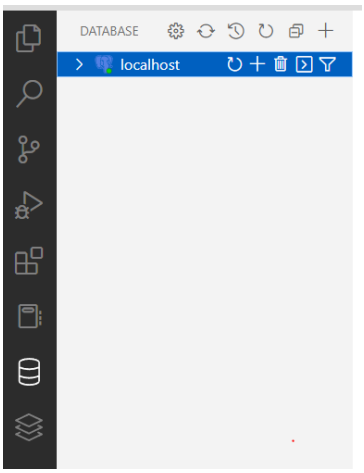
You must enter some options

- Name: "localhost" (you can use any custom name)
- Host: 127.0.0.1 (this is the default, this will only differ if you work with an external server)
- username: postgres
- password: 12345 (same as the one we chose above)
- port: 5432 (same as the one we chose above)

Leave everything else to the default. Click the "Connect" button at the bottom.



(d) Check that the connection now appears on the left panel. Sometimes the connection doesn't work if the server isn't running. If this happens you can open the "Postgresql" program on your computer to start the server.



You've connected SQL to Virtual Studio Code! We're ready to start working with SQL.