

Exercise 14: Installing Client Software to Work with SDE

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1. Intro-fossgis-umass

1.1. Author Attribution

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1.2. Module Licensing Information

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1.3. Reviewed by

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2. Installing client software to work with SDE

Introduction

As we discussed before [urlhere], the current version of QGIS has a limited ability to manipulate attribute data. QGIS relies on SDE/PostGIS for storage and management of massive attribute data. For this class we will use a graphic cross-platform client [http://en.wikipedia.org/wiki/PostgreSQL_Management_Tools] for PostgreSQL/PostGIS pgAdmin III [http://pgadmin.org/]. This application is free to use and can be installed on Windows, Linux and Mac computers. You can also use other PostgreSQL clients you are comfortable with or a psql command line utility. The next few sections will explain the process of downloading, installing and configuring the client. The next modules will explain how to query data, join statistical data to geographic layers and perform other exciting functions.

Download

First of all, download a binary installation package for your operating system from <http://pgadmin.org/>.

1. In a new browser window open the site **pgadmin.org** and select "Download" link.
2. On "Download page", select your operating system (e.g. Windows, Linux, MacOS)
3. The next few steps describe the procedure for Windows OS:
 - a. Click on link pgAdmin v.1.6.1 (we will use this version), it will redirect you to the "FTP Browser" webpage.
 - b. Click on link "pgadmin3-1.6.1.zip"
 - c. Select a mirror to download from and save an installation package on your harddrive.
 - d. unzip the pgadmin3-1.6.1.zip file to a directory (e.g. c:\temp).
 - e. or *Shortcut*: you can click on this link downlo?d the file for windows pgAdmin3-1.6.1.zip [http://www.master.postgresql.org/download/mirrors-ftp?file=pgadmin3%2Frelease%2Fv1.6.1%2Fwin32%2Fpgadmin3-1.6.1.zip] directly.

Installation

Run the installer and install the package onto your system. You are likely to need some administrative privileges to install the software.

To install the software on windows:

1. double click on the file **pgadmin3.msi**, it should invoke the microsoft installer, if not:
 - a. run command window (**Click the start menu > select run**)

b. type the following command in the dialog box **msiexec /i c:\temp\pgadmin3-1.6.1\pgadmin3.msi**

if it's necessary substitute **c:\temp** with a path where you unzipped the software

1. select install/modify option on the first install wizard screen
2. specify a path to install the software and click 'ok'
3. finish the installation

To install the software on Mac OS X:

Instructions for installation on OSX are available on the "download" page of OSX on the pgadmin website. You can get there from here: <http://pgadmin.org/download/macosx.php>

To install the software on Linux:

The website above offers several options for installing pgAdmin on linux. Check to see if they have an installation procedure particular to your flavor of linux (debian, redhat, suse, etc...) and if not, you'll have to compile the software from the source code. Unzip the file using the "tar" command, and read the README and/or INSTALL text files that come with it. This should give you a sense of what you'll need to do to compile it from the source code.

Configuration

At this step, we need to to configure a connection to our PostgreSQL/PostGIS server. Please start the pgAdminIII application. Click on "**File > Add Server**" to configure a new connection to a server. The window "**New Server**

New Server Registration

Properties

Name: Foss Student::Lambda

Host: lambda.sbs.umass.edu

Port: 5432 SSL: [dropdown]

Maintenance DB: testgis

Username: umstudent

Password: [masked]

Store password:

Restore env?:

DB restriction: [empty]

Service: [empty]

Connect now:

Buttons: Help, OK, Cancel

http://linuxlab.sbs.umass.edu/intro-fossgis-umass/index.php?title=Image:Pgadmin_addserver.png

Figure 1. Add new PostGIS server

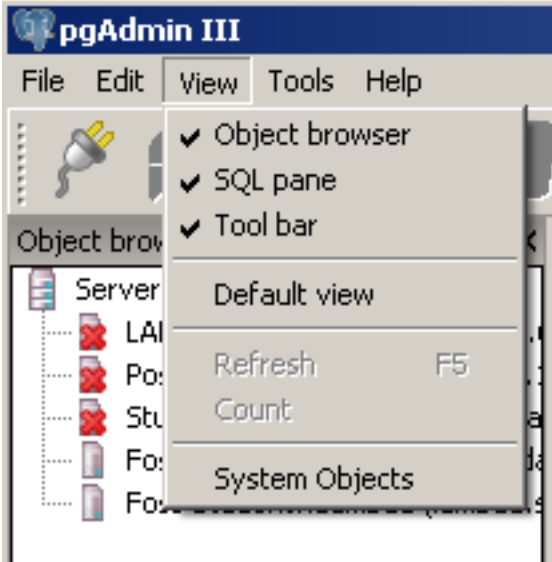
Configure the connection using settings below:

```

Name: FOSS Student::Lambda Server (or any other description)
Host: lambda.sbs.umass.edu
Port: 5432 (default value)
Maintenance DB: testgis
Username: umstudent
Password: <provided by instructor> f0ss2007

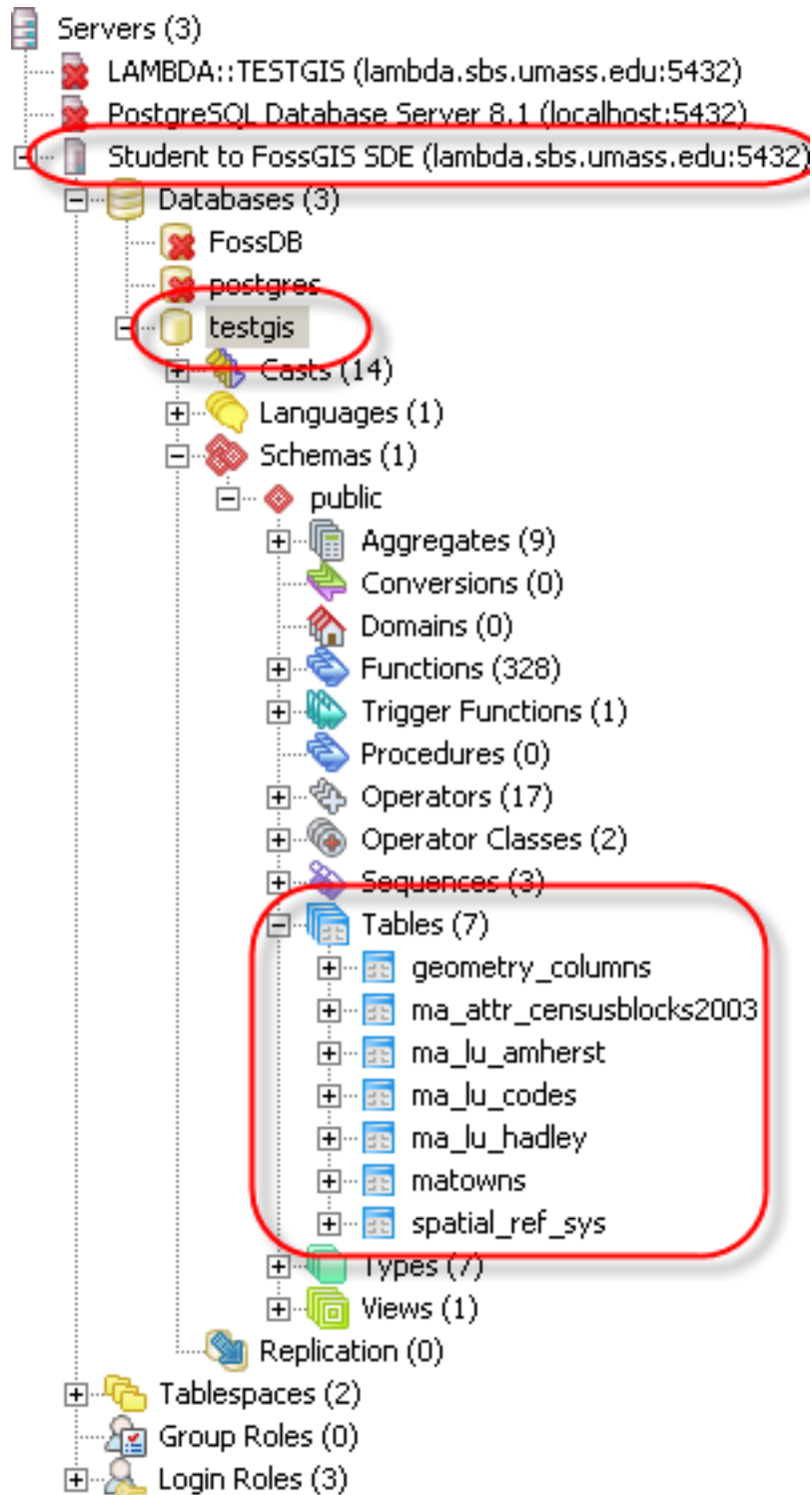
```

Click "OK" to apply settings. You will see that the configured server appeared in the table of contents (TOC) on the left side bar (Figure 3). If you don't see the TOC, change "view" options, clicking on the "View" menu and checking available options (Figure 2).



http://linuxlab.sbs.umass.edu/intro-fossgis-umass/index.php?title=Image:Pgadmin_addserver_viewoptions.png

Figure 2. Setign view options



http://linuxlab.sbs.umass.edu/intro-fossgis-umass/index.php?title=Image:Pgadmin_servers_tree.png

Figure 3: pgAdmin TOC with available servers

You have now configured the pgAdmin application, we will do some data processing on the database side.