SEEM5770/ECLT5840

Install and manage MySQL

Introduction

- This will cover how to install MySQL in your computer, and how to use phpMyAdmin to manage it efficiently.

Where we are

- MySQL
  - (Somewhat) Easy to manage
  - (Somewhat) Compatible with SQL standard
  - Lightweight

Where we are

- phpMyAdmin
  - Not compellent
  - But it will save you a lot of time
    - Especially if you are not a database expert
  - Enjoy the GUI
    - No command line
- Other options are available
  - You could find some here
    http://dev.mysql.com/downloads/gui-tools/5.0.html
  - But on your own risk :)

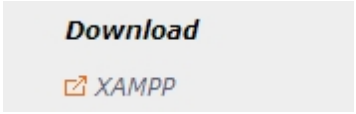
The environment

- This mainly focuses on Windows (7)
- Mac OS X version is similar
  - Do let me know if you found any questions that the windows version cannot work
- Linux version is similar too
  - But I guess Linux geeks do not need this one :)

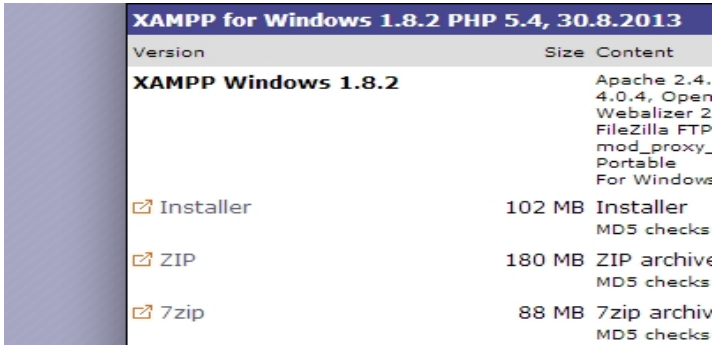
Installation

- Just follow the official guide of MySQL, Apache Sever, PHP and phpMyAdmin
- But too complicated :(
- Fortunately, there are some packs that contain all of them
- We will introduce one of them: xampp

xampp

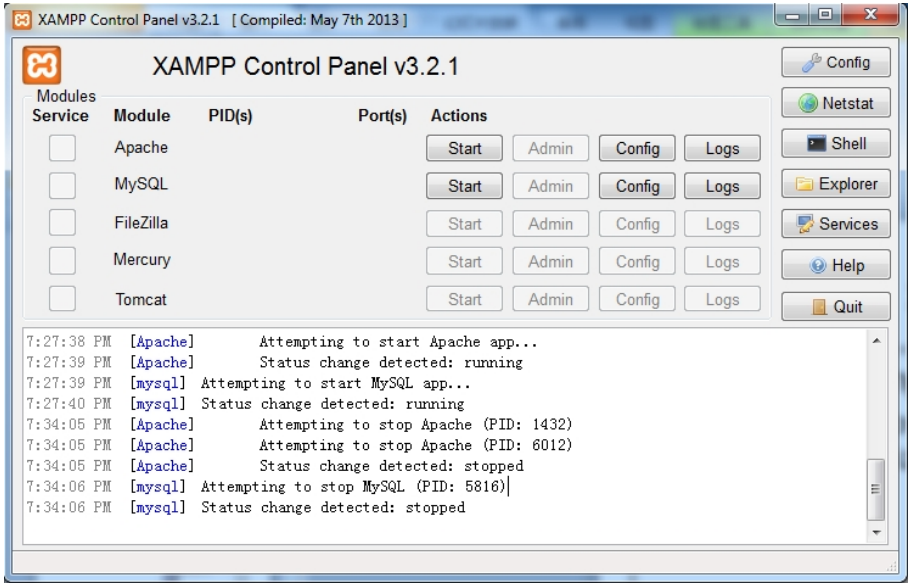
- http://www.apachefriends.org/en/xampp.html
- Go to "XAMPP for Windows" if you're using Windows
- Go 

and click the XAMPP
- Click the installer, wait several seconds, and execute the downloaded package



xampp

- Continue clicking "Next"
  - Unless you know what you doing and really wanna customize it :)
- After everything finishes, you will see this screen



xampp

- Click two "Start" buttons for module "Apache" and "MySQL"
- Then click "Admin" button for "MySQL"
  - It will open a page in your browser
  - All rest works will be in this page
- After using it, you could click "Stop" to save your computer resources

phpMyAdmin

- Here we will re-define the term "database". It is a set of tables. It is not the general "database" we used in the course lecture and the textbook.
- In the left column, you could some. Like
  - cdcol
  - information_schema
  - mysql
  - performance_schema
  - ...

database

- Let's choose the "test" database by clicking it.
- In the right column, it says "No tables found in database".
- Why not create one now?

Create Table

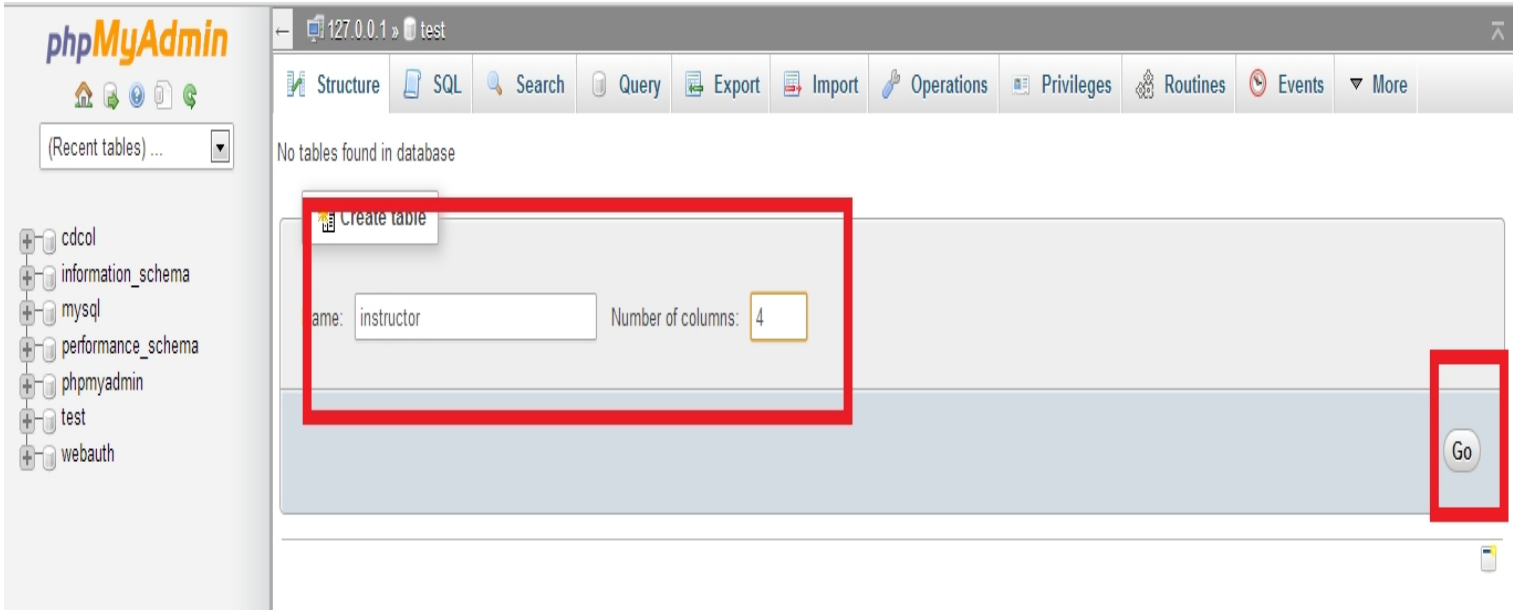
- We are going to create a table used in the lecture slides

ID	*name*	*dept_name*	*salary*
22222	Einstein	Physics	95000
12121	Wu	Finance	90000
32343	El Said	History	60000
45565	Katz	Comp. Sci.	75000
98345	Kim	Elec. Eng.	80000
76766	Crick	Biology	72000
10101	Srinivasan	Comp. Sci.	65000
58583	Califieri	History	62000
83821	Brandt	Comp. Sci.	92000
15151	Mozart	Music	40000
33456	Gold	Physics	87000
76543	Singh	Finance	80000

(a) The *instructor* table

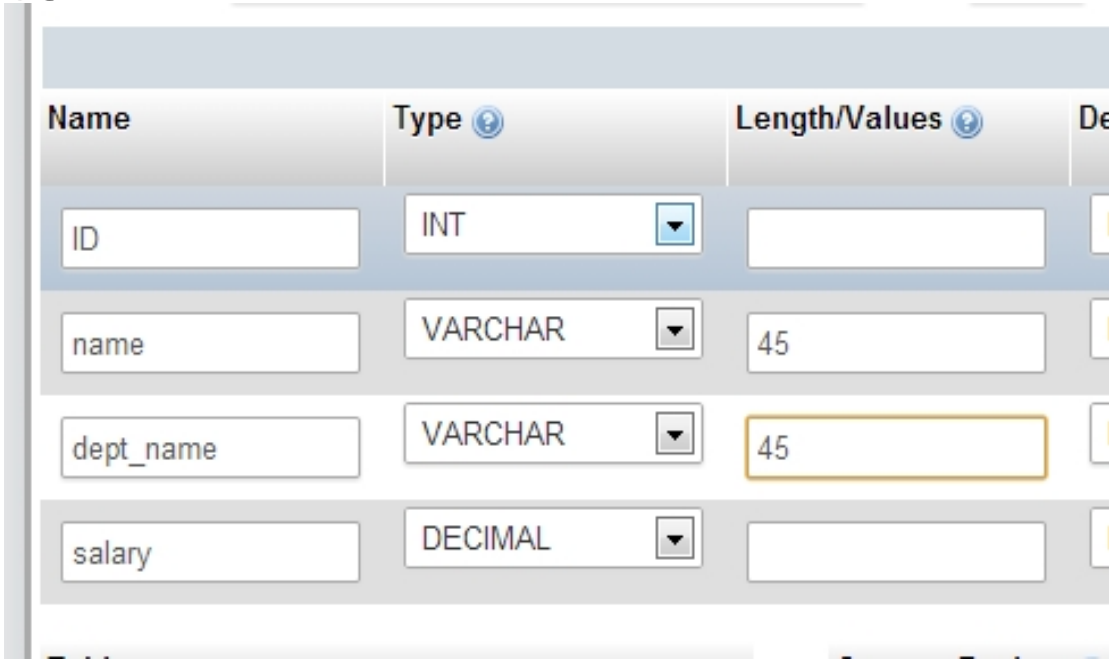
Create Table

- Type in the table name: instructor and number of columns: 4
- Click Go button



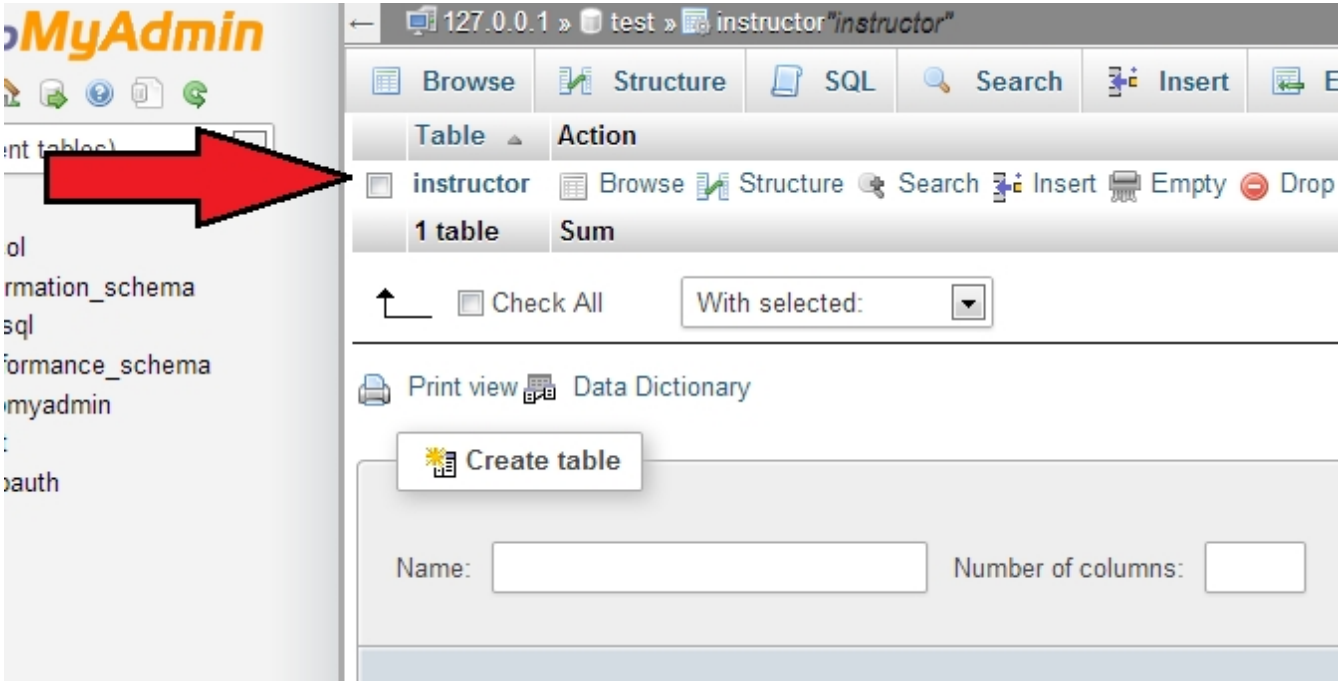
Create Table

- Type in name, type and length for VARCHAR type for each column
- Click Save button



Create Table

- Now we could find the just created table



Further on...

- Discover your self :)
- PHPMyAdmin tutorial http://www.siteground.com/tutorials/phpmyadmin/