Installer Guide for School Management System

Submitted by –

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SCHOOL OF COMPUTER AND INFORMATION SCIENCE



TABLE CONTENT

I. For Window Server Install MySQL Download MySQL Installer Install MySQL via MySQL Installer II. For Linux B. ATTACH DATABASE AND DEPLOY WEBSITE
Install MySQL Download MySQL Installer
Download MySQL Installer Install MySQL via MySQL Installer II. For Linux
Install MySQL via MySQL Installer
II. For Linux 18
D. ALIACH DAIADASE AND DEFLUT WEDSITE
I. Attach Database 2
II. Config Application for first time

A. INSTALLATION SOFTWARE

I. For Window Server

Install MySQL

Summary: this tutorial shows you step by step how to install MySQL on Windows platform using MySQL Installer. After the tutorial, you will have a MySQL database server and its tools up and running in your system for learning and practicing MySQL.

Download MySQL Installer

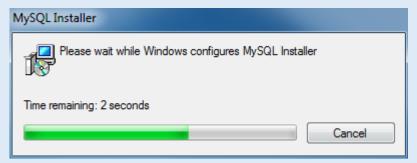
If you want to install MySQL on Windows environment, using MySQL installer is the easiest way. MySQL installer provides you with an easy-to-use wizard that helps you to install MySQL with the following components:

- MySQL Server
- All Available Connectors
- MySQL Workbench with Sample Data Models
- MySQL Notifier
- Tools for Excel and Microsoft Visual Studio
- MySQL Sample Databases
- MySQL Documentation

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To download MySQL installer, go to the following link $\frac{http://dev.mysql.com/downloads/installer/}{lend to the internet while installing MySQL, you can choose the online installation version <math display="block">\frac{mysql-installer-web-community.exe}{mysql-installer-web-community.exe}. If you want to install MySQL offline, you can download the <math display="block">\frac{mysql-installer-}{mysql-installer-}$

Install MySQL via MySQL Installer

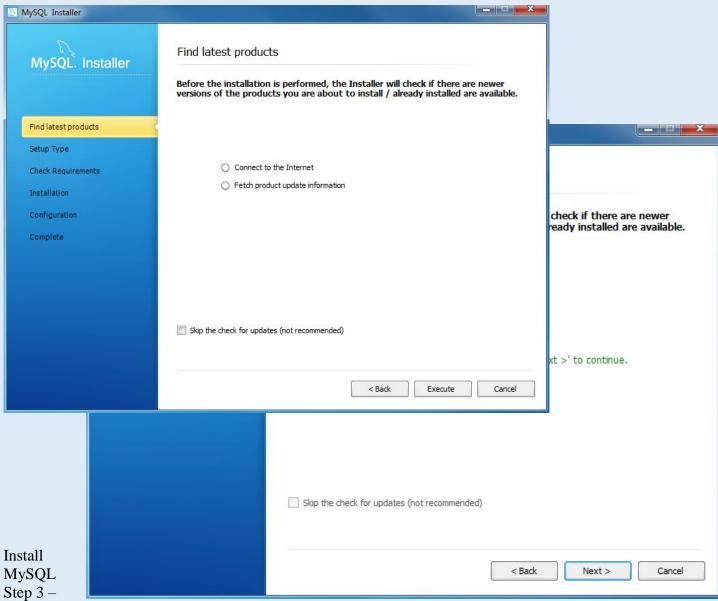


To install MySQL using the MySQL installer, double-click on the MySQL installer file and follow the steps below:

Install MySQL Step 1: Windows configures MySQL Installer

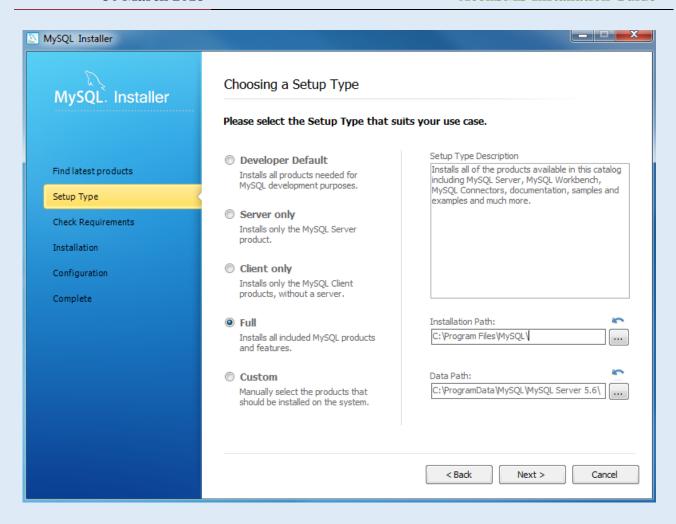
Install MySQL Step 2 – Welcome Screen: A welcome screen provides several options. Choose the first — option: Install MySQL Products



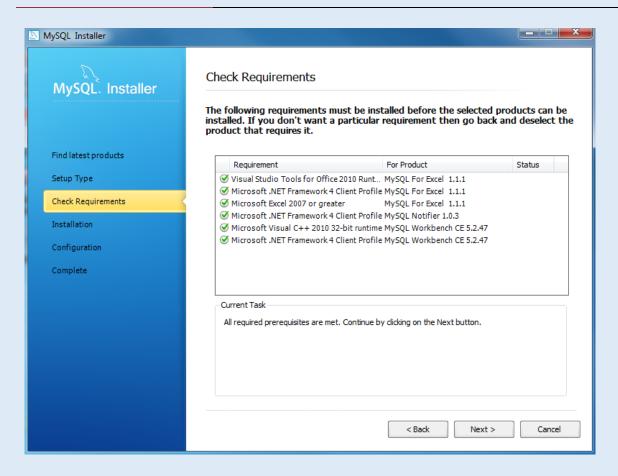


Download the latest MySQL products: MySQL installer checks and downloads the latest MySQL products including MySQL server, MySQL Workbench, etc.

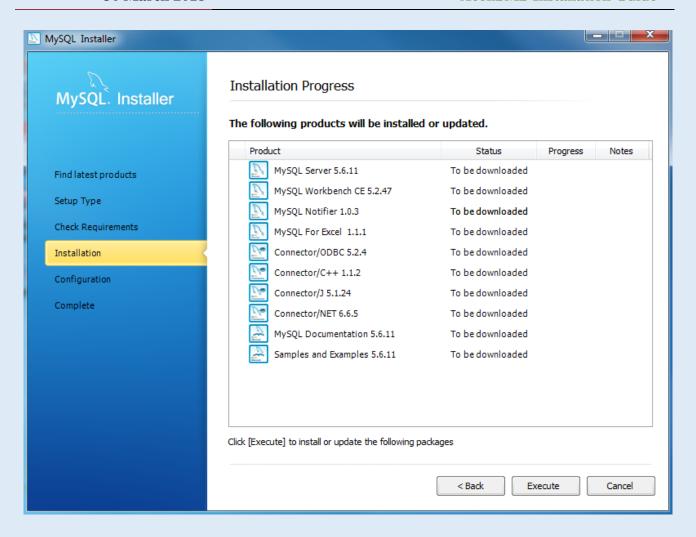
Install MySQL Step 4: Click Next button to continue



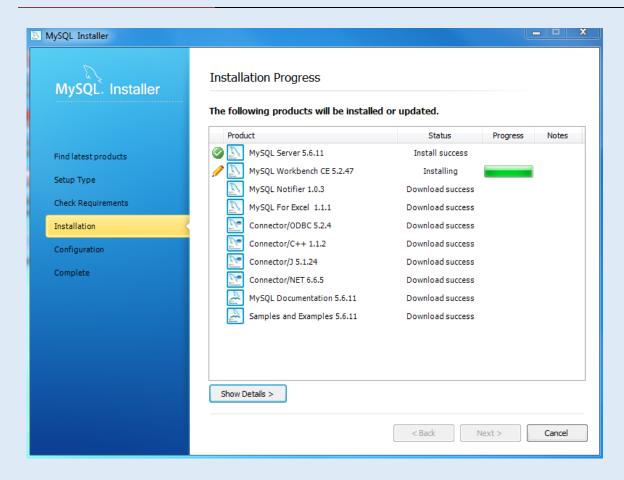
Install MySQL Step 5 – Choosing a Setup Type: there are several setup types available. Choose the Full option to install all MySQL products and features.



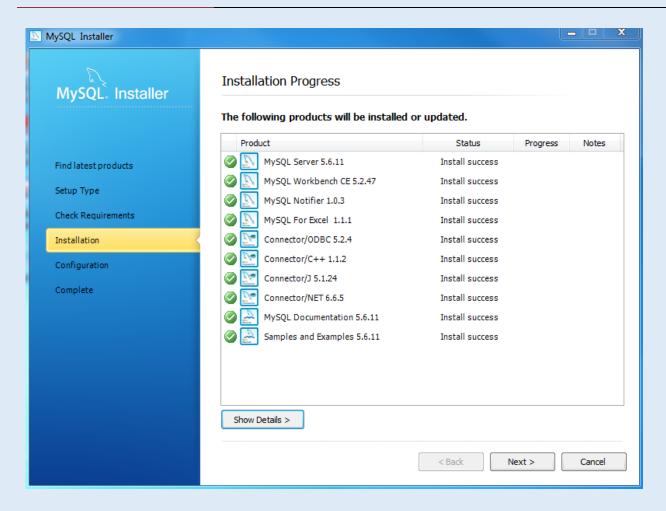
Install MYSQL Step 6 – Checking Requirements



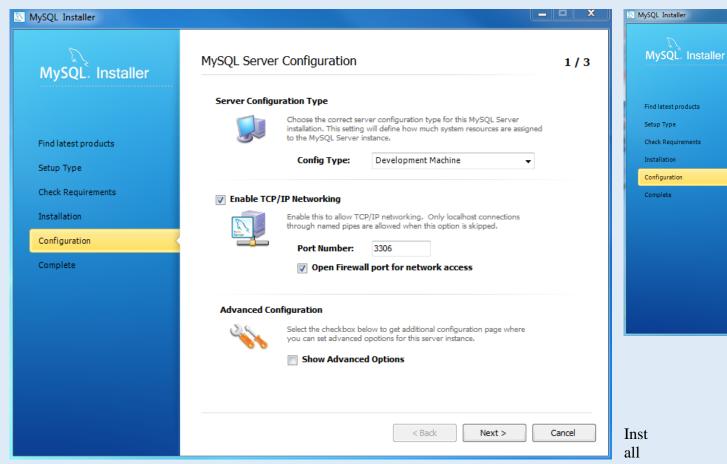
Install MySQL Step 7 – Installation Progress: MySQL Installer downloads all selected products. It will take a while, depending on which products that you selected and the speed of your internet connection.



Install MySQL Step 7 – Installation Progress: downloading Products in progress.

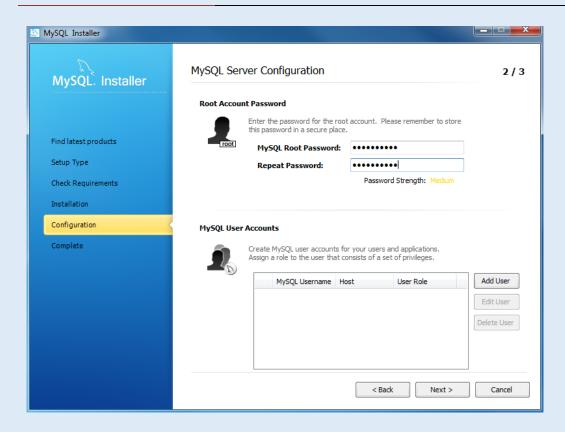


Install MySQL Step 7 – Installation Progress: Complete Downloading. Click Next button to continue...

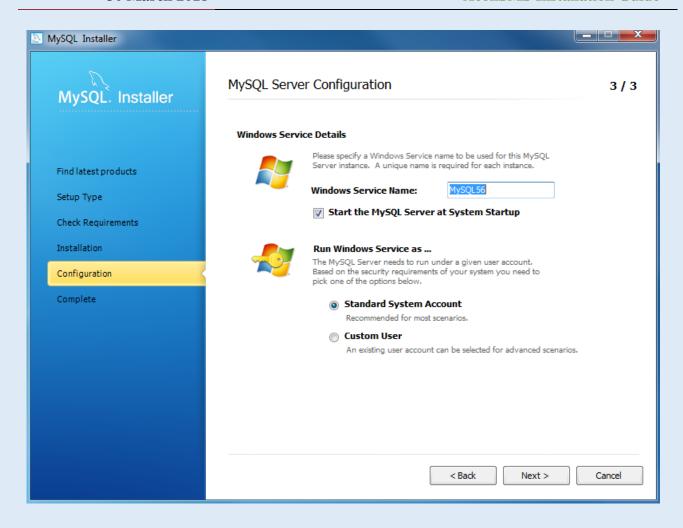


MySQL Step 8 - Configuration Overview. Click Next button to configure MySQL Database Server

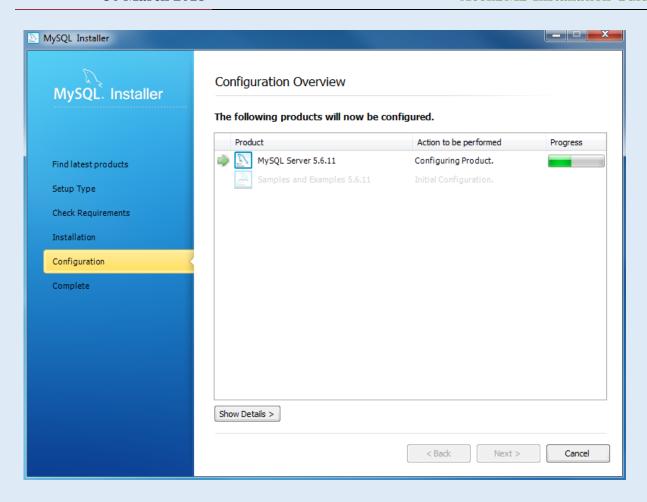
Install MySQL Step 8.1 – MySQL Server Configuration: choose Config Type and MySQL port (3006 by default) and click Next button to continue.



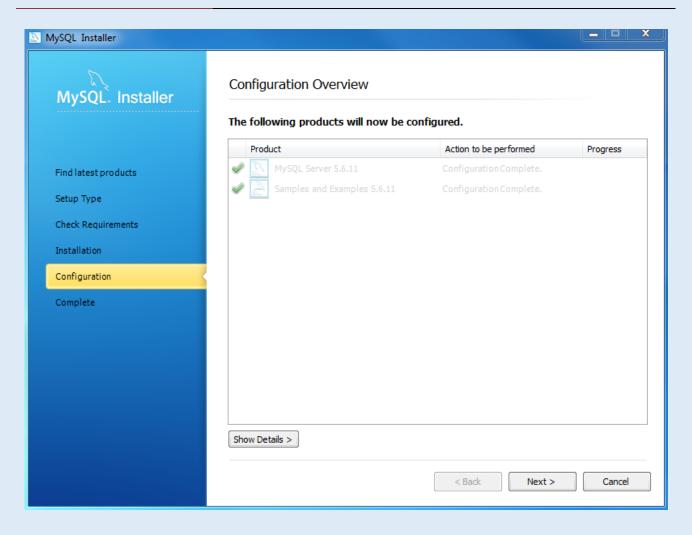
Install MySQL Step 8.1 – MySQL Server Configuration: choose a password for the root account. Please note the password download and keep it securely if you are installing MySQL database server on a production server. If you want to add a more MySQL user, you can do it in this step.



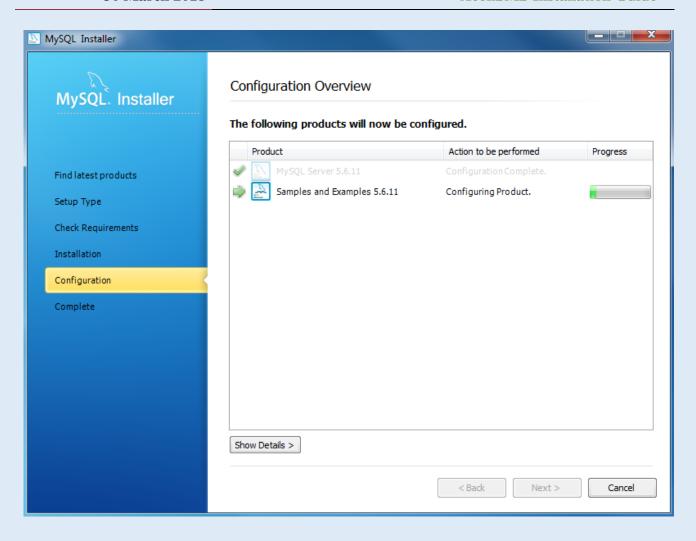
Install MySQL Step 8.1 - MySQL Server Configuration: choose Windows service details including Windows Service Name and account type, then click Next button to continue.



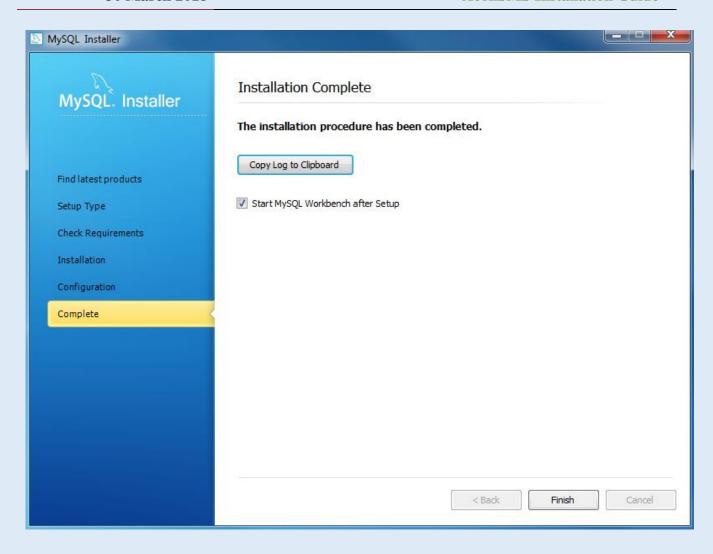
Install MySQL Step 8.1 – MySQL Server Configuration – In Progress: MySQL Installer is configuring MySQL database server. Wait until it is done and click Next button to continue.



Install MySQL Step 8.1 – MySQL Server Configuration – Done. Click the Next button to continue.



 $In stall\ MySQL\ Step\ 8.2-Configuration\ Overview:\ MySQL\ In staller\ in stalls\ sample\ databases\ and\ sample\ models.$



Install MySQL Step 9 – Installation Completes: the installation completes. Click finish button to close the installation wizard and launch the MySQL Workbench.

Install Java

The procedure to install Java broadly consists of:

Download and Install

Test Installation

» Windows System Requirements

Note: Installing Java requires that you can gain administrator access to Windows on your computer.

Download and Install

This process requires you to download an executable file that includes all the files needed for the complete installation. You do not need to remain connected to the Internet during the installation.

The file can also be copied to a computer that is not connected to the Internet.

Go to the Manual download page

Click on Windows Offline.

The File Download dialog box appears prompting you to run or save the download file Click Save to download the file to your local system.

Tip: Save the file to a known location on your computer, for example, to your desktop.

Close all applications including the browser.

Double-click on the saved file to start the installation process.

The installation process starts. Click the Install button to accept the license terms and to continue with the installation.



Oracle has partnered with companies that offer various products. The installer may present you with option to install these programs when you install Java. After ensuring that the desired programs are selected, click the Next button to continue the installation.

A few brief dialogs confirm the last steps of the installation process; click Close on the last dialog. This will complete Java installation process.



Detect older versions (8u20 and later versions). Starting with Java 8 Update 20 (8u20), on Windows systems, the Java Uninstall Tool is integrated with the installer to provide an option to remove older versions of Java from the system. The change is applicable to 32 bit and 64 bit Windows platforms.

Notifications about disabled Java and restoring prompts

The installer notifies you if Java content is disabled in web browsers, and provides instructions for enabling it. If you previously chose to hide some of the security prompts for applets and Java Web Start applications, the installer provides an option for restoring the prompts. The installer may ask you to reboot your computer if you chose not to restart an internet browser when it prompted you to do so

II. For Linux

Introduction

MySQL is an open-source database management system, commonly installed as part of the popular LAMP(Linux, Apache, MySQL, PHP/Python/Perl) stack. It uses a relational database and SQL (Structured Query Language) to manage its data.

The short version of the installation is simple: update your package index, install the mysql-serverpackage, and then run the included security script. sudo apt-get update

sudo apt-get install mysql-server

mysql_secure_installation

This tutorial will explain how to install MySQL version 5.7 on a Ubuntu 16.04 server. However, if you're looking to update an existing MySQL installation to version 5.7, you can read <u>this MySQL</u> 5.7 update guideinstead.

Prerequisites

To follow this tutorial, you will need:

One Ubuntu 16.04 server set up by following this initial server setup guide, including a sudo non-

root user and a firewall.

Step 1 — Installing MySQL

On Ubuntu 16.04, only the latest version of MySQL is included in the APT package repository by default. At the time of writing, that's MySQL 5.7

To install it, simply update the package index on your server and install the default package with apt-get.

sudo apt-get update

sudo apt-get install mysql-server

You'll be prompted to create a root password during the installation. Choose a secure one and make sure you remember it, because you'll need it later. Next, we'll finish configuring MySQL.

Step 2 — Configuring MySQL

For fresh installations, you'll want to run the included security script. This changes some of the less secure default options for things like remote root logins and sample users. On older versions of MySQL, you needed to initialize the data directory manually as well, but this is done automatically now.

Run the security script. mysql_secure_installation

This will prompt you for the root password you created in Step 1. You can press Y and then ENTER to accept the defaults for all the subsequent questions, with the exception of the one that asks if you'd like to change the root password. You just set it in Step 1, so you don't have to change it now. For a more detailed walkthrough of these options, you can see this step of the LAMP

installation tutorial.

To initialize the MySQL data directory, you would use mysql_install_db for versions before 5.7.6, and mysqld --initialize for 5.7.6 and later. However, if you installed MySQL from the Debian distribution, like in Step 1, the data directory was initialized automatically; you don't have to do anything. If you try running the command anyway, you'll see the following error:

Output

2016-03-07T20:11:15.998193Z 0 [ERROR] --initialize specified but the data directory has files in it. Aborting.

Finally, let's test the MySQL installation.

Step 3 — Testing MySQL

Regardless of how you installed it, MySQL should have started running automatically. To test this, check its status.

systemctl status mysql.service

You'll see output similar to the following:

Output

• mysql.service - MySQL Community Server

Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: en Active: active (running) since Wed 2016-11-23 21:21:25 UTC; 30min ago

Main PID: 3754 (mysqld)

Tasks: 28

Memory: 142.3M CPU: 1.994s

CGroup: /system.slice/mysql.service __3754 /usr/sbin/mysqld

If MySQL isn't running, you can start it with sudo systemctl start mysql.

For an additional check, you can try connecting to the database using the mysqladmin tool, which is a client that lets you run administrative commands. For example, this command says to connect to MySQL as root (-u root), prompt for a password (-p), and return the version. mysqladmin -p -u root version

You should see output similar to this:

Output

mysqladmin Ver 8.42 Distrib 5.7.16, for Linux on x86_64

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Server version 5.7.16-0ubuntu0.16.04.1

Protocol version 10

Connection Localhost via UNIX socket UNIX socket /var/run/mysqld/mysqld.sock

Uptime: 30 min 54 sec

Threads: 1 Questions: 12 Slow queries: 0 Opens: 115 Flush tables: 1 Open tables: 34 Queries

per second avg: 0.006

This means MySQL is up and running.

Install Java on Linux

The instructions below are for installing version Java 8 Update 73 (8u73). If you are installing another version, make sure you change the version number appropriately when you type the commands at the terminal. Example: For Java 8u79 replace 8u73 with 8u79. Note that, as in the preceding example, the version number is sometimes preceded with the letter u, and sometimes it is preceded with an underbar, for example, jre1.8.0 73.

Note about root access: To install Java in a system-wide location such as /usr/local, you must login as the root user to gain the necessary permissions. If you do not have root access, install Java in your home directory or a subdirectory for which you have write permissions.

Change to the directory in which you want to install. Type:

cd directory_path_name

For example, to install the software in the /usr/java/ directory, Type:

cd /usr/java/

Move the .tar.gz archive binary to the current directory.

Unpack the tarball and install Java

tar zxvf jre-8u73-linux-x64.tar.gz

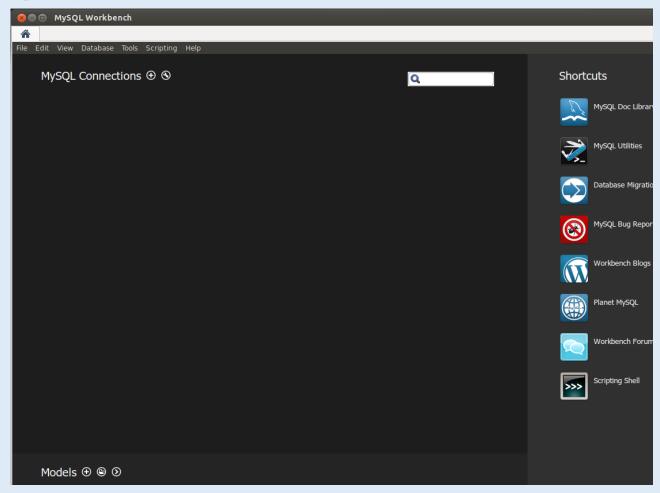
The Java files are installed in a directory called jre1.8.0_73 in the current directory. In this example, it is installed in the /usr/java/jre1.8.0_73 directory. When the installation has completed, you will see the word Done.

Delete the .tar.gz file if you want to save disk space.

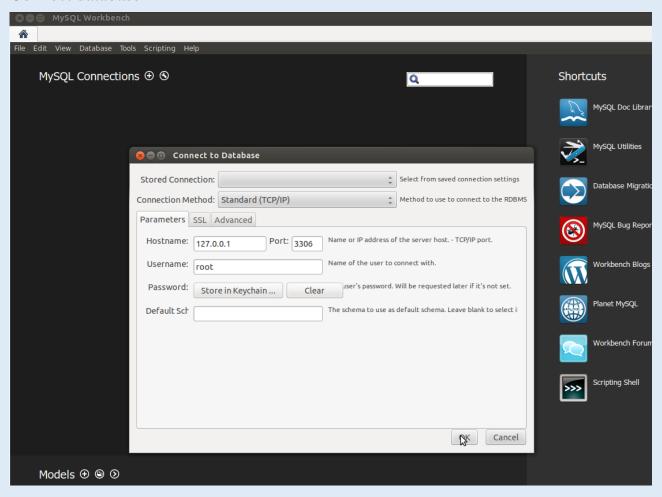
B. ATTACH DATABASE AND DEPLOY WEBSITE

I. Attach Database

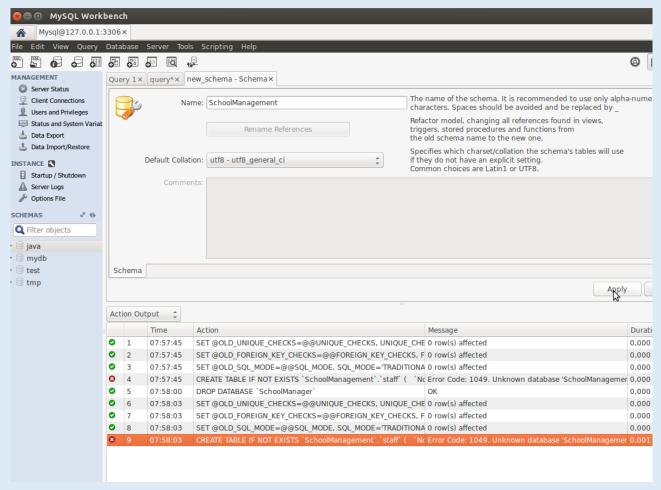
Open MySQL WorkBench

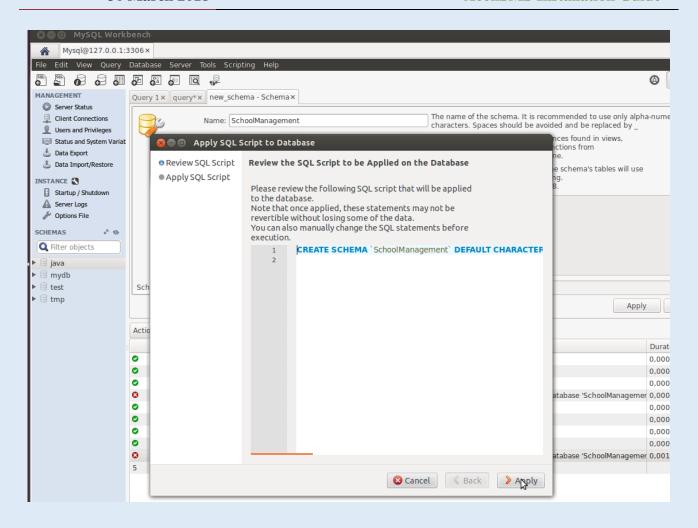


Connect database

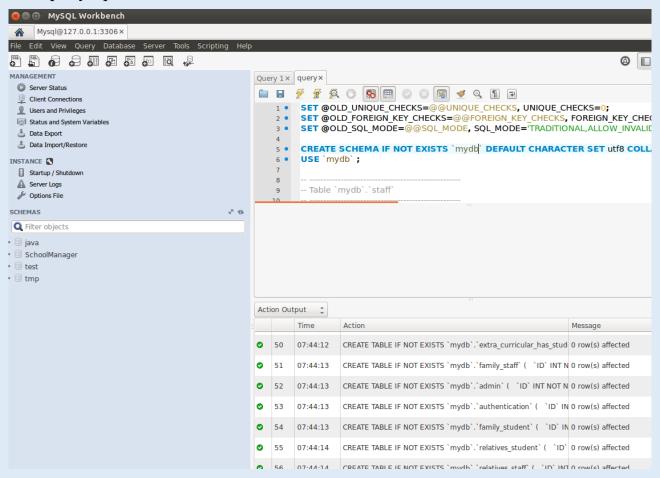


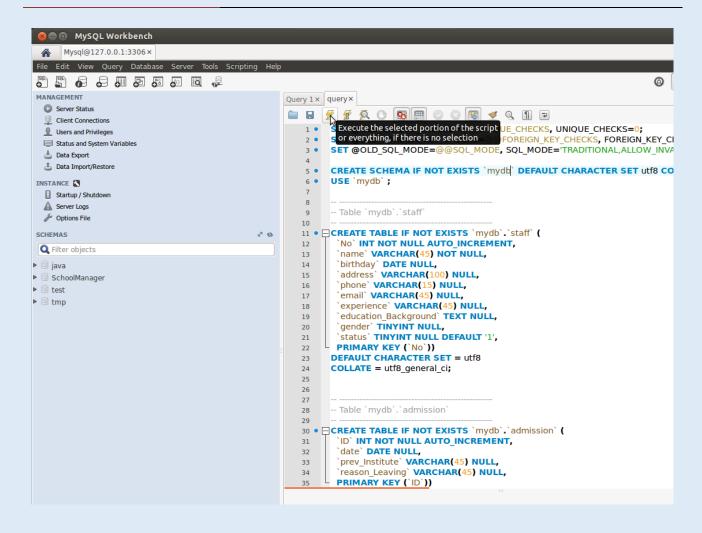
Create new schema (database)





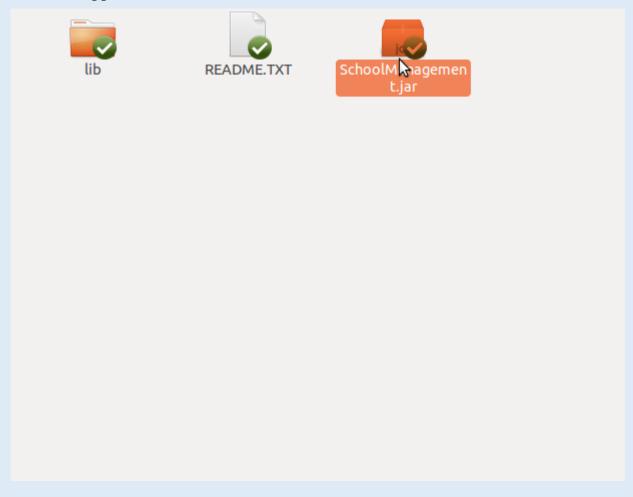
Add query.sql



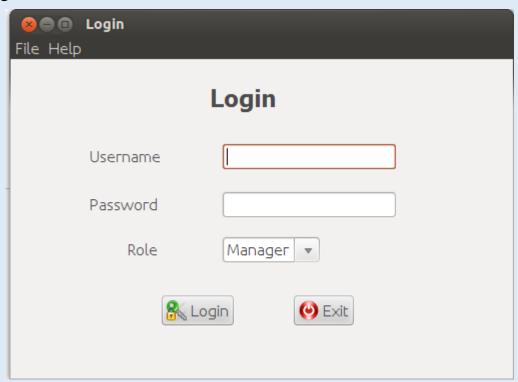


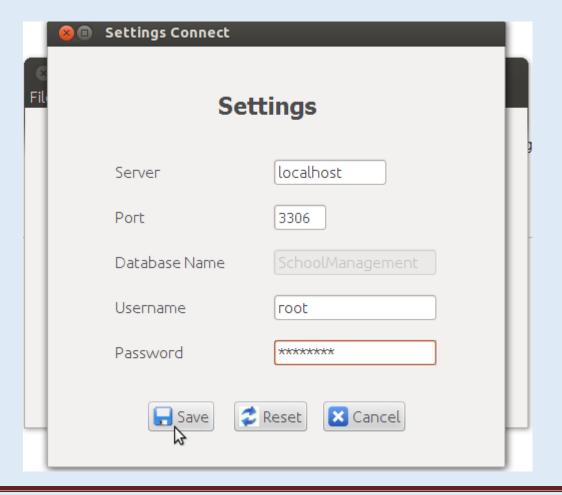
II. Config Application for first time

Run Application



Settings





Login with

1. Administrator access

Username: admin

Password: 123

Role: Admin

2. Student Manager access

Username: ankitjha

Password: jha

Role: Manager

3. Employee Manager access

Username: Anakin

Password: ankit

Role: Manager

Done!