



DATA MODELLING AND DATABASES

Setting up the Sample Database

1 Local installation of MySQL

You need to have superuser access for Linux or administrator rights for Windows to be able to install the MySQL as a Service using the following commands

1.1 Installing MySQL

a) Linux

1. Install the MySQL Community Server using your package manager
 - Ubuntu/Debian `apt-get install mysql-server`
 - Fedora/Redhat `yum install mysql-server`
2. Get the MySQL Workbench tools for your distribution from <http://www.mysql.com/downloads/workbench/>
 - Install the downloaded package using your package manager
 - Ubuntu/Debian `dpkg -i mysql-workbench-version_nr.deb` or if you are missing dependencies and don't want to install them manually `gdebi mysql-workbench-version_nr.deb`
 - Fedora/Redhat `yum localinstall mysql-workbench-version_nr.rpm`

b) Windows

1. Get and install the MySQL Community Server from <http://dev.mysql.com/downloads/mysql/>
 - You can choose the typical installation
 - Select the Standard Installation if this is the first time you install MySQL
2. Get and install the MySQL Workbench from <http://dev.mysql.com/downloads/workbench/5.2.html>

b) Mac OS X

1. Get and install the MySQL Community Server from <http://dev.mysql.com/downloads/mysql/#downloads>
choose the right DMG version to match your machine type and OS X version, for example *Mac OS X ver. 10.6 (x86, 64-bit), DMG Archive*
2. Get and install the latest DMG version of MySQL Workbench from : <http://dev.mysql.com/downloads/workbench/5.2.html>

1.2 Import the Sample Database

This step is independent of the operating system.

1. Open the MySQL Workbench tool and add your mysql instance
 - Click on **New Server Instance**
 - Select the localhost connection and just leave the default settings.
 - For Linux installations, make sure that you check your correct Operating System and the MySQL Installation type.
 - Once the server instance is added you can start and stop your MySQL instance
2. Go back to the MySQL Workbench home screen and click on **Open Connection to Start Querying**
3. Download the dmdb.sql schema from the lecture webpage and import it to the database.
4. Click on **File->Open Sql Script** and select the dmdb.sql
5. Select an existing schema or create a new one
6. Click on **Query->Execute(All or Selection)** and wait until the schema is populated

2 Using the ETH MySQL Service

If you don't want to install MySQL on your computer then you can use the service provided by ETH. Since it is a pretty old MySQL version you might have some limitations. One of these is the incompatibility between MySQL Workbench and the MySQL version offered by the ETH Service.

1. Login to <http://www.passwort.ethz.ch> with your nethz-Account.
2. Click on **Meine Services** and then click on MySQL.
3. Choose a Passwort, if possible not the same with your nethz-Passwort.
4. Click on **Datenbank erstellen** to setup your database.
5. Go to the following website <https://phpmyadmin.ethz.ch/appl> and register with nethz-username and the password chosen at step 3
6. Click on Import. Download the *dmdb.sql* schema from the lecture webpage and import it to the database.
7. **You are now done and can start running queries on the database :) !**

3 Labs with MySQL installed

The student labs in CAB H56 and CAB H57 have MySQL client tools installed.