

## Installing MySQL on Mac OS X

On the RAWDATA course we will use the MySQL database system in a distributed environment. We will need to access local as well as remote database servers to work with databases provided by these servers.

**MySQL Workbench** is a convenient integrated tool that you can use to access local and remote servers and databases. The tool also supports design, development and administration of databases.

To create and support local databases you need in addition to install **MySQL Community Server**.

## Installing MySQL Workbench

To install MySQL Workbench on your Mac, follow the instructions below.

- From the MySQL website <http://dev.mysql.com/downloads/workbench/> download **MySQL Workbench 6.3.10** for your platform
- To the question "Login Now or Sign Up for a free account" answer by clicking: "No thanks, just start my download." (in the bottom of the page).
- Install the downloaded application in your system

## Installing MySQL Community Server

To install **MySQL Community Server 5.7.21** on your Mac, follow the instructions below.

- From the MySQL website <http://dev.mysql.com/downloads/mysql/> download **Mac OS X 10.13 (x86, 64-bit), DMG Archive**
- To the question "Login Now or Sign Up for a free account" answer by clicking: "No thanks, just start my download."
- Install the downloaded server in your system
  - During this procedure you will be presented a **root** password. This is for your local server.
  - **Write this password down** – you'll need it to log in (as **root** user) to your local MySQL database server.
  - You can continue to use the user **root** but you can also create additional users.

## Start working with MySQL Workbench

- Start MySQL Workbench.
- Click on the +-sign to add a new connection.
- Give the connection a name, e.g. "islb\_guest", enter "islb.ruc.dk" as hostname, 3306 as port-name and "guest" as username. Enter "movie" as default schema and press the OK-button.
- You have now created a connection to the MySQL server at islb.ruc.dk.
- To access the server simply click the new connection-button on your Home-area in MySQL Workbench.
- To log in, use the password "guest".
- You can try a simple query by entering it in the query area and pressing the lightning-button to run it. Use for instance:
  - `SELECT * FROM movie.movie;`

## Start working with MySQL Community Server

- Start your MySQL server: Open MySQL in your system preferences and start it from there.
- Start MySQL Workbench.
- Click on the +-sign to add a new connection.
- Enter a connection name, enter "localhost" as hostname, 3306 as port and add the user that will access the database through this connection.
- If you need to add a password to root, change passwords or add user accounts, click on "Users and Privileges".
- Finally, to create a database with the tables of the University database from our textbook, click on Data Import/Restore. Download the file university\_database.sql from moodle to your local computer. Choose "Import from Self-Contained File". Give your local university database-version a name (e.g. "university") by clicking the "New" button. Finish by clicking "Start Import".
- You can now try in a query tab: `SELECT dept_name FROM university.department`