

Installing MySQL Community Server and MySQL Workbench

Course: SUPCOM, Hösten 2019

Module: Database Management Systems

DBMS Tool: MySQL version 8.0.18

Goal

• To familiarize yourself with MySQL, relational database management system community edition

Learning outcomes

• Be able to install and setup MySQL Community on Windows computers

Part one - Installing MySQL Community with Workbench

1. Introduction

MySQL is a database server claimed to be very fast, multithreaded, multi-user, and robust SQL (Structured Query Language) server according to MySQL[™]. MySQL is a trademark of Oracle Corporation and its affiliates. The MySQL software has Dual Licenses¹ therefore users can use the open source licensed version under the terms of the GNU General Public License² (Community Server) or can purchase a standard commercial license from Oracle (Enterprise Edition).

MySQL Workbench provides a graphical tool for working with MySQL servers and databases. MySQL Workbench fully supports MySQL versions 5.5 and higher³. MySQL Workbench provides functionalities to enable SQL Development, Data Modeling, Server Administration, Data Migration, and MySQL Enterprise Support for backup and audit.

2. Installing MySQL Community Server

- Follow the link <u>https://dev.mysql.com/downloads/mysql/</u>
- Choose the operating system you are using currently as illustrated below
 - Select Go to Download Page > dev.mysql.com/downloads/mysql/ w to find if some... 🗈 Matt Bishop, Vulner.. 💩 Code of Ethics — A... 🛛 🚻 www.sans.org/readi... 💫 🛛 🙆 KTH | My Library Ac... 📭 Baye Speec MySQL Commun ty Downloads MySQL Community Server General Availability (GA) Releases MySQL Community Server 8.0 Select this if you Select Operating System are using a Microsoft Windows windows computer Select Operating System. Ubuntu Linux Debian Linux SUSE Linux Enterprise Server Select this if you Red Hat Enterprise Linux / Oracle Linux are using a Mac Fedora Linux - Generic Oracle Solari 8.0.18 272.3M Download macOS

² <u>http://www.fsf.org/licenses/</u>

¹ <u>http://www.mysql.com/company/legal/licensing/</u>

³ <u>https://dev.mysql.com/doc/refman/8.0/en/workbench.html</u>

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(MySQL Community Dc wnloa MySQL Installer	ads		
	General Availability (GA) Releases			
	MySQL Installer 8.0.18			
	Select Operating System: Microsoft Windows	¥	Looking for p versions?	revious GA
<	Windows (x86, 32-bit), MSI Installer	8.0.18	18.6M	Download
	(mysql-installer-web-community-8.0.18.0.msi)	N	1D5: c509966c1033462027a009cc	51a98c74 Signature
	Windows (x86, 32-bit), MSI Installer	8.0.18	415.1M	Download
	(mysql-installer-community-8.0.18.0.msi)	N	ID5: 906b5f84343d487f716f03b5	925d8286 Signature

Note: If you have an Oracle account you can download by login, for this lab you don't need to login or sign up.

Select No thanks, just start my download



• Select the first Download option (to install online)

• If your browsers shows you the **Save As** dialog box as illustrated below, then you can specify where you want to save the file and select **Save** (*If the dialog box is not is not displayed it means that your browser is saving the file under downloads in Windows computers*)

Save As				×
$\leftarrow \rightarrow \checkmark \uparrow$	his PC > Desktop >	~ Ū	Search Desktop	م
Organize 🔻	New folder			⊾ - 🥐
誟 Dropbox		*	*	* ^
less one Drive				1.1
🤜 This PC	×		PDF	×
File <u>n</u> an	ne: mysql-installer-web-comm	unity-8.0.18.0		~
Save as <u>t</u> y	pe: Windows Installer Package			\sim
∧ Hide Folders			<u>S</u> ave	Cancel

• Locate the downloaded setup file and Launch it (you might see the following message box showing you that the software is being installed)



• Depending on your configurations you might be prompted to allow or deny installing MySQL on your computer, click on **Yes**



MySQL Installer - Community	If you see this dialog
Please wait while Windows configures MySQL Installer - Community	box you are currently
	in the process of
Time remaining: 1 seconds	installing MySQL, so do
Cancel	not cancel it!
Select Yes if you are prompted about Upgrade as illu	istrated below

 Select Yes if you are prompted about Upgrade as illustrated b 	elow	
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MySQL Installer	×
Norphics	Optional MySQL Installer Upgrade Available You will continue receiving product catalog updates if you do not apply the upgrade. Do you want to apply this upgrade now?
	Yes No

• If you are presented with License Agreement then, you should select I accept the license terms and Click on Next (Otherwise continue to the next step)

NySQL Installer		
MySQL. Installer Adding Community	License Agreement To proceed you must accept the Oracle Software License Terms.	
License Agreement	GNU GENERAL PUBLIC LICENSE Version 2, June 1991	
Choosing a Setup Type Installation Installation Complete	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed. Preamble ======= The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free softwareto make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.	
	When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute conies of free software (and charge for this ✓ I accept the license terms	↓ <u>C</u> ancel



Check Requirements – at this stage you might be required to manually install if some installations are missing. Here you can select and click **Next** to install. The following figures illustrate different scenarios where there are missing installations. These missing installations might not be so important for your lab so you can skip them if you fail to install them.

• If the system (or the setup process) prompts you that the requirement is not installed or cannot be installed, then click **Next**, **Skip**, to bypass it.

MySQL Installer	– 🗆 X	MySQL Installer	- 0 X
MySQL. Installer Adding Community	Check Requirements The following products have failing requirements. MySQL Installer will attempt to resolve them automatically, Requirements marked as manual cannot be resolved automatically. Click on each item to yin and resolve its manualy.	MySQL. Installer Adding Community	Check Requirements The following products have failing requirements. MySQL installer will attempt to resolve them automatically. Requirements marked as meanual cannot be resolved automatically. Click on each them to any and exole the manually.
License Agreement	For Product Baquirament Statur	Choosing a Setup Type	Ear Desduct Deswirement Statur
Choosing a Setup Type	Connector/Python (3.7) 8.0.17 Python 3.7 (64-bit) is not installed Manual	Check Requirements	MySQL For Excel 1.3.8 Visual Studio 2010 Tools for Office R INSTL DONE
Check Requirements		Installation	O MySQL for Visual Studio 1.2.8 Visual Studio version 2012, 2013, 201 Manual
Installation		Product Configuration	
Product Configuration		Installation Complete	
Installation Complete			
			Negurement Details MSOL installer is trying to automatically resolve this requirement.
			There is nothing you need to do.
			Requirement: Visual Studio 2010 Tools for Office Runtime is not installed Status:
	< Back Next > Cancel		< <u>Back</u> <u>Next</u> > <u>Cancel</u>
-			
MySQL Installer	× [MySQL Installer	– 🗆 X
MuSOL Installer	Chack Paguiramants		
Adding Community	Check hequitements	Adding Community	Check Requirements
	The following products have failing requirements. MySQL Installer will attempt to resolve them automatically. Requirements marked as manual cannot be resolved automatically. Click	Adding community	The following products have failing requirements. MySQL Installer will attempt to resolve
Character a Status Tuna	on each item to try and resolve it manually.		on each item to try and resolve it manually.
Choosing a setup rype	For Product Requirement Status	License Agreement	For Droduct Requirement Statue
Check Requirements	MySQL For Excel 1.3.8 Visual Studio 2010 Tools for Office R INSTL DONE	Choosing a Setup Type	Connector/Python (3.7) 8.0.17 Python 3.7 (64-bit) is not installed Manual
Installation	WySQL for Visual Studio 1.2.8 Visual Studio version 2012, 2013, 201 Manual	Check Requirements	
Product Configuration		Installation	
Installation Complete		Product Configuration	
		Installation Complete	
	Requirement Details		Requirement Details
	This is a manual requirement. You can attempt to resolve the requirement using the		This is a manual requirement. You can attempt to resolve the requirement using the
	requirment has been met.		information provided. When done, you can press the Check button to see if the requirment has been met.
	Requirement: Visual Studio version 2012, 2013, 2015 or 2017 must be installed.		Requirement: Python 3.7 (64-bit) is not installed
	Check		Download URL: http://www.muthon.org/download/
			Circle
	(Back Neda		
	Zave Terr Terr		< Back Next > Cancel

• Click on **Execute** to install all packages (it may take a while to install packages, sit back relax and have coffee if your computer and connection are not good)

SQL Installer		- 🗆 X
MySQL. Installer Adding Community	Installation The following products will be installed.	
	Product Status	Progress Notes
Choosing a Setup Type	MySQL Server 8.0.18 Ready to down	nload
Path Conflicts	MySQL Workbench 8.0.18 Ready to down	nload
Installation	MySQL Notifier 1.1.8 Ready to down	nload
	MySQL Shell 8.0.18 Ready to down	nload
Product Configuration	MySQL Router 8.0.18 Ready to down	nload
Installation Complete	Connector/ODBC 8.0.18 Ready to down	nload
	Connector/C++ 8.0.18 Ready to down	nload
	Connector/J 8.0.18 Ready to down	nload
	Connector/NET 8.0.18 Ready to down	nload
	Connector/Python (3.7) 8.0.17 Ready to down	nload
	MySQL Documentation 8.0.18 Ready to down	nload
	Samples and Examples 8.0.18 Ready to down	nload
	L	
	Click [Execute] to install the following packages.	
	< <u>B</u> ack	Execute <u>C</u> ancel

• It might take a while until the downloaded product is installed, if the installation fails you can select **Try Again** and wait until all components are installed (you can see the snapshots below).



here we need MySQL Server and MySQL Workbench so once you have these two packages installed you don't need to worry

• Select Next to make sure MySQL Server is configured



Select Standalone MySQL Server then click Next



• Leave everything as it is shown below i.e, Configuration Type: Developer Computer



• Select the first option for Authentication Method then click on Next



• Enter your password (enter - supcom as password in lower case) then click on Next

MySQL Installer				_		Х
MySQL. Installer MySQL Server 8.0.18	Accounts and Ro Root Account Password Enter the password for the place.	les root account. Please	e remember to store	e this password i	n a secure	
High Availability	MySQL Root Password:	•••••				
Type and Networking	Repeat Password:	•••••	the Marth			
Authentication Method		Password strengt	in: vveak			
Accounts and Roles						
Windows Service	MySOL User Accounts					
Apply Configuration	Create MySQL user accou consists of a set of privile	nts for your users an ges.	nd applications. Ass	ign a role to the	user that	
	MySQL User Name	Host	User Role		Add Us	er e
			< <u>B</u> ack	Next >	Canc	el

You don't need to change anything regarding Window Service so click Next

SQL Installer	- 🗆 X
MySQL. Installer MySQL Server 8.0.18	Windows Service ☑ Configure MySQL Server as a Windows Service
High Availability Type and Networking Authentication Method	Windows Service Details Please specify a Windows Service name to be used for this MySQL Server instance. A unique name is required for each instance. Windows Service Name: MySQL80 Start the MySQL Server at System Startup
Accounts and Roles	
Windows Service	Run Windows Service as The MySQL Server needs to run under a given user account. Based on the security requirements of your system you need to nick one of the onlines below.
Apply Configuration	 Standard System Account Recommended for most scenarios. Custom User An existing user account can be selected for advanced scenarios.
	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

• Select Next under Apply Configuration

SQL Installer		_		×
MySQL. Installer MySQL Server 8.0.18	Apply Configuration The following configuration steps are being executed. Configuration Steps Log			
High Availability Type and Networking Authentication Method Accounts and Roles Windows Service Apply Configuration	 Writing configuration file Updating Windows Firewall rules Adjusting Windows service Initializing database (may take a long time) Starting the server Applying security settings Updating the Start menu link 			
		Execute	<u>C</u> anc	el

• Now Product Configuration will follow click **Next** and use default options, i.e. leave everything as it is

nysqt installer		
MySQL. Installer	Product Configuration	
Adding Community	3	
	We'll now walk through a configuration wize	ard for each of the following products.
	You can cancel at any point if you wish to le	ave this wizard without configuring all the
Choosing a Setup Type	products.	ave and where a without configuring an the
Installation	Product	Status
	MySQL Server 8.0.18	Configuration complete.
Product Configuration	MySQL Router 8.0.18	Configuration not needed.
Installation Complete	Samples and Examples dut to	coniguration complete.
	(,
	×	,

- Select **Next** and accept default options until you get **Connect To Server** as shown below.
- Enter password then click on **Check**

MySQL Installer		- D	
MySQL. Installer Samples and Examples	Connect To Server Select the MySQL server instances from the list to receive sample schemas	and data.	
Connect To Server	Show MySQL Server instances that may be running in read-only mode		
Apply Configuration	Server Port Arch Type Status		
	Provide the credentials that should be used (requires root privileges). Click "Check" to ensure they work.		
	User name: root Credentials provided in Ser	ver configuratio	n
	Password: Check		

MySQL Installer		×			
MySQL. Installer Samples and Examples	Connect To Server Select the MySQL server instances from the list to receive sample schemas and data.				
Connect To Server	Show MySQL Server instances that may be running in read-only mode				
Apply Configuration	Server Port Arch Type Status MySQL Server 8.0.18 3306 X64 Stand-alone Server Connection succeeded.				
	Click "Check" to ensure they work. User name: root Password: •••••• Check <u>Next ></u> <u>Cancel</u>				

• Now follow the step through Wizard questions by simply clicking on **Next** until you see the following dialog box. Now you can click **Finish**

MySQL Installer		-		×
MySQL. Installer Adding Community	Installation Complete The installation procedure has been completed.			
Choosing a Setup Type	Copy Log to Clipboard			
Installation	✓ Start MySQL Workbench after Setup			
Product Configuration	Start MySQL Shell after Setup			
Installation Complete				
		[<u>F</u> inisł	1

When you Select Finish MySQL Workbench will be launched if you check the the option is selected as illustrated above.

MySQL Work	bench				-	σ	\times
File Edit Vi	ew Database Tools Scripting Help						
		Welcome MySQL Workbench is the create and browse you design and run SQL querie	official graphical user interface (GUI) tool for MySQ r database schemas, work with database objects an s to work with stored data You can also mirrate of	Orkbench IL. It allows you to design, d insert data as well as remas and data from other			×
			database vendors to your MySQL database.				
		Browse Documentation >	Read the Blog >	Discuss on the Forums >			
	MySQL Connections ⊕⊗				٩		
	Local instance MySQL80						

- As you can see under MySQL Connections, (you can have several connections here, you can also create your customized connection by clicking + sign)
- Select the available connection: Local instance MySQL80
- Enter the password (supcom) then click **OK**

Connect to MySQL Server			
	Please enter following serv	password for the vice:	
Workbench	Service: User: Password:	Mysql@localhost:3306 root	
		Save password in vault OK Canc	cel

