



THE UNIVERSITY OF
MELBOURNE

Tutorial Week 1

INFO90002





Agenda

- Meet tutor and other students
- Introduction to MySQL Server and MySQL Workbench
- Installation of MySQL Server and MySQL Workbench
- Bonus Activity



Introduction to MySQL

MySQL is a brand, with a range of products

- MySQL Server
- MySQL Workbench
- MySQL Utilities

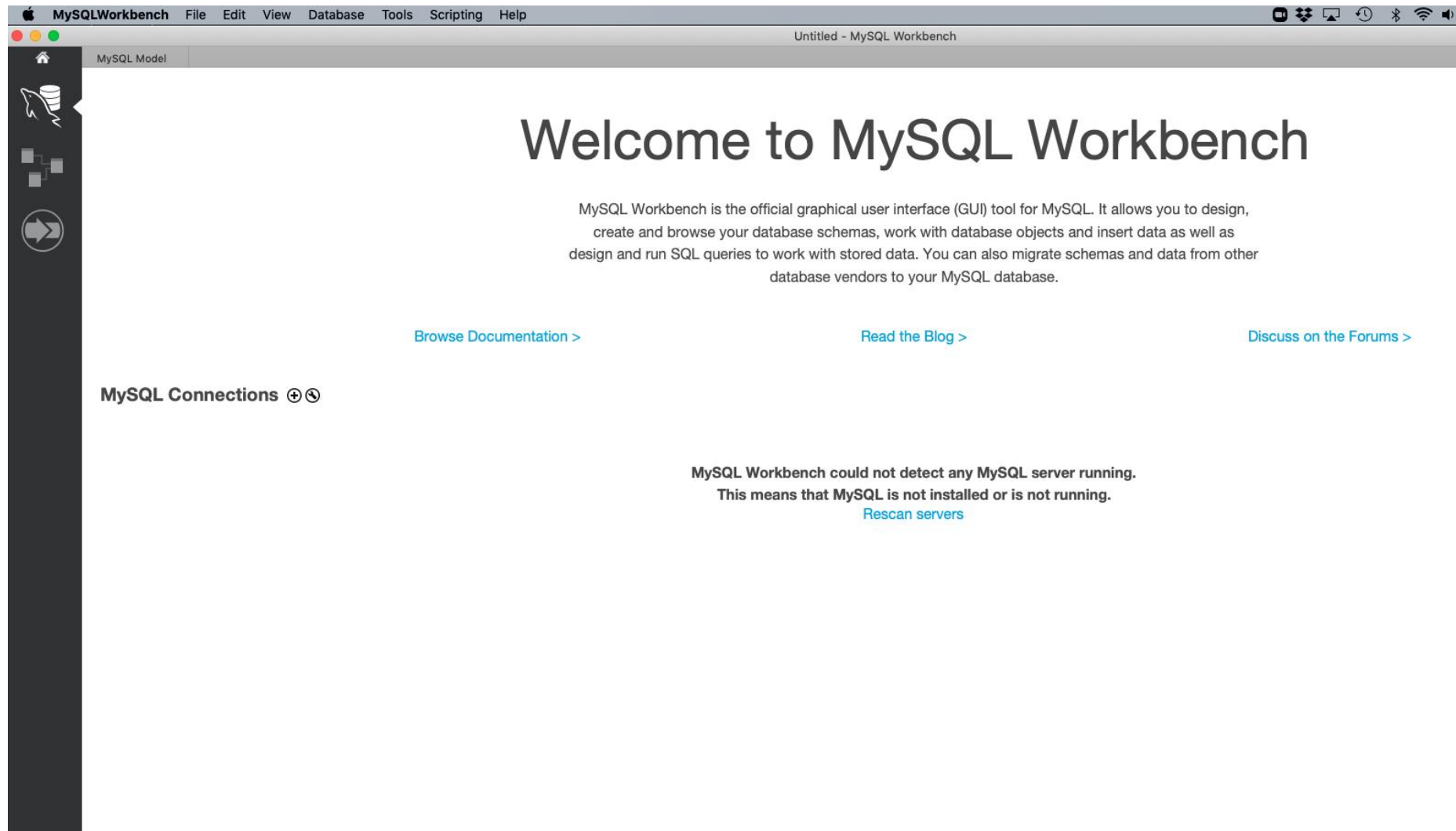
MySQL Server is a relational database management system

MySQL Workbench is a graphic user interface used to connect to and work with MySQL server

MySQL Workbench creates a connection to the database server over a network



Workbench demonstration





Installation

Install MySQL Server and MySQL Workbench

- MySQL Server

Be sure to download the **MySQL Community Server** edition

<https://dev.mysql.com/downloads/mysql/>

- MySQL Workbench from this link

<http://dev.mysql.com/downloads/workbench/>

The binaries of these downloads are also in Canvas

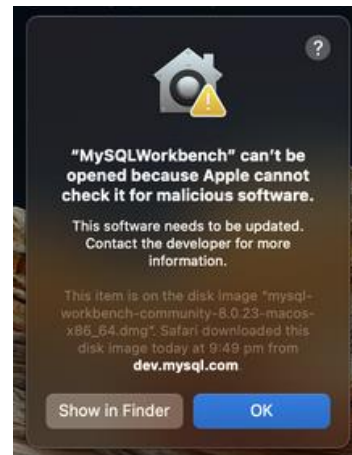
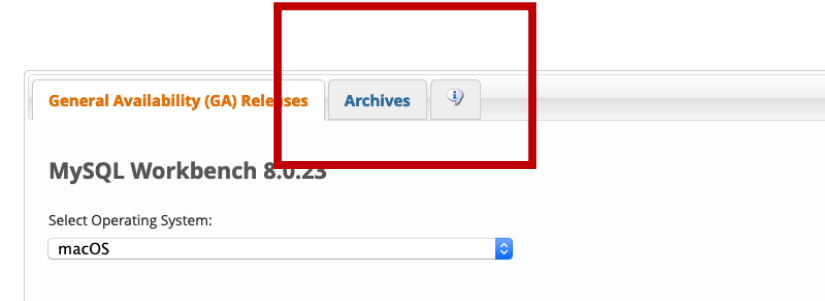
Some notes...

MacOS

If you are using Mac m1 chip, try version 8.0.21 (Find it in the *Archives* tab)

If you get the security message, go to

System Preferences > *Security and Privacy* > approve the app to be downloaded





Some notes...

Windows

- MySQL Installer for Windows

Prerequisites

- You may need to install **Microsoft C++ packages** <https://dev.mysql.com/doc/refman/8.0/en/windows-installation.html>
However, if installing as a developer package (shown on the following slides), Windows will resolve and install missing packages without need for intervention

General Availability (GA) Releases Archives

MySQL Community Server 8.0.28

Select Operating System:
Microsoft Windows

Looking for previous GA versions?

Recommended Download:

MySQL Installer for Windows

All MySQL Products. For All Windows Platforms. In One Package.

Starting with MySQL 5.6 the MySQL Installer package replaces the standalone MSI packages.

Windows (x86, 32 & 64-bit), MySQL Installer MSI

[Go to Download Page >](#)

Other Downloads:

Windows (x86, 64-bit), ZIP Archive (mysql-8.0.28-winx64.zip)	8.0.28	211.7M	Download
MD5: f1a0cfb0086256a56c81e1fe75e1338c Signature			
Windows (x86, 64-bit), ZIP Archive Debug Binaries & Test Suite (mysql-8.0.28-winx64-debug-test.zip)	8.0.28	506.3M	Download
MD5: b8d45945da1d823bec37e30f6847c54f Signature			

Mysql-installer-community

MySQL Community Downloads

MySQL Installer

General Availability (GA) ReleasesArchives

MySQL Installer 8.0.28

Select Operating System:
Microsoft Windows

Looking for previous GA versions?

Windows (x86, 32-bit), MSI Installer (mysql-installer-web-community-8.0.28.0.msi)	8.0.28	2.3M	Download
Windows (x86, 32-bit), MSI Installer (mysql-installer-community-8.0.28.0.msi)	8.0.28	435.7M	Download

! We suggest that you use the [MD5 checksums](#) and [GnuPG signatures](#) to verify the integrity of the packages you download.

Do NOT sign up, just download

MySQL Community Downloads

Login Now or Sign Up for a free account.

An Oracle Web Account provides you with the following advantages:

- Fast access to MySQL software downloads
- Download technical White Papers and Presentations
- Post messages in the MySQL Discussion Forums
- Report and track bugs in the MySQL bug system

Login »

using my Oracle Web account

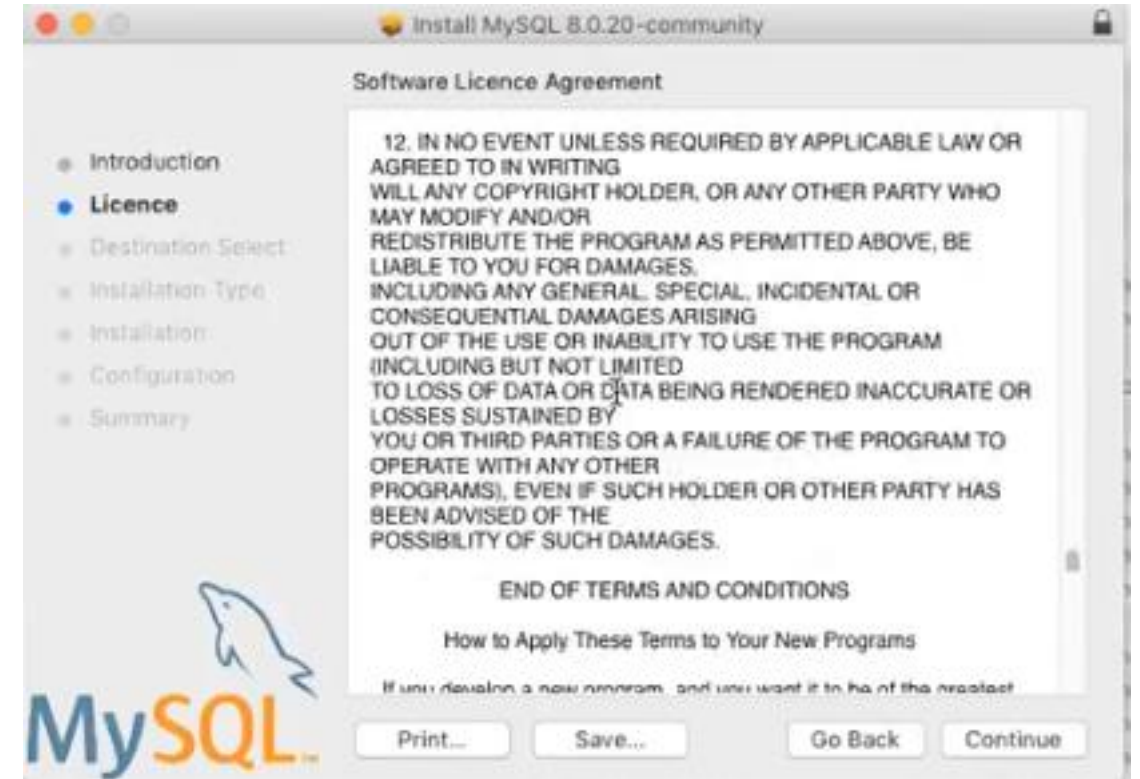
Sign Up »

for an Oracle Web account

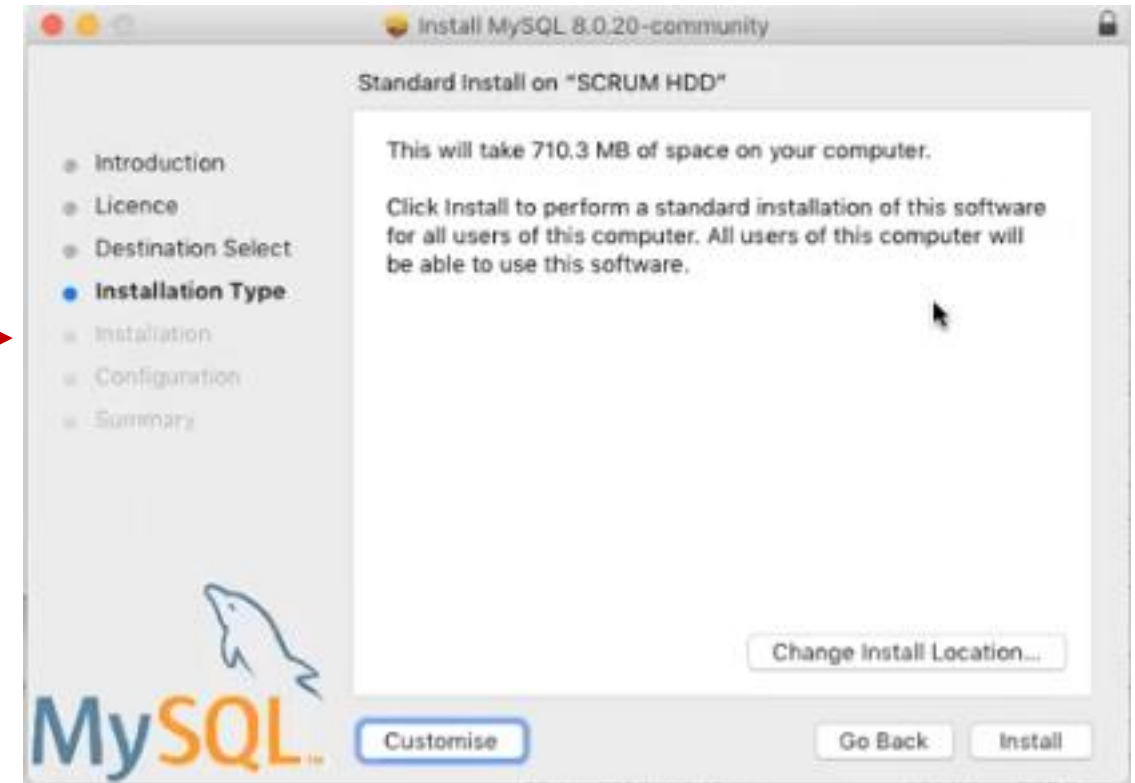
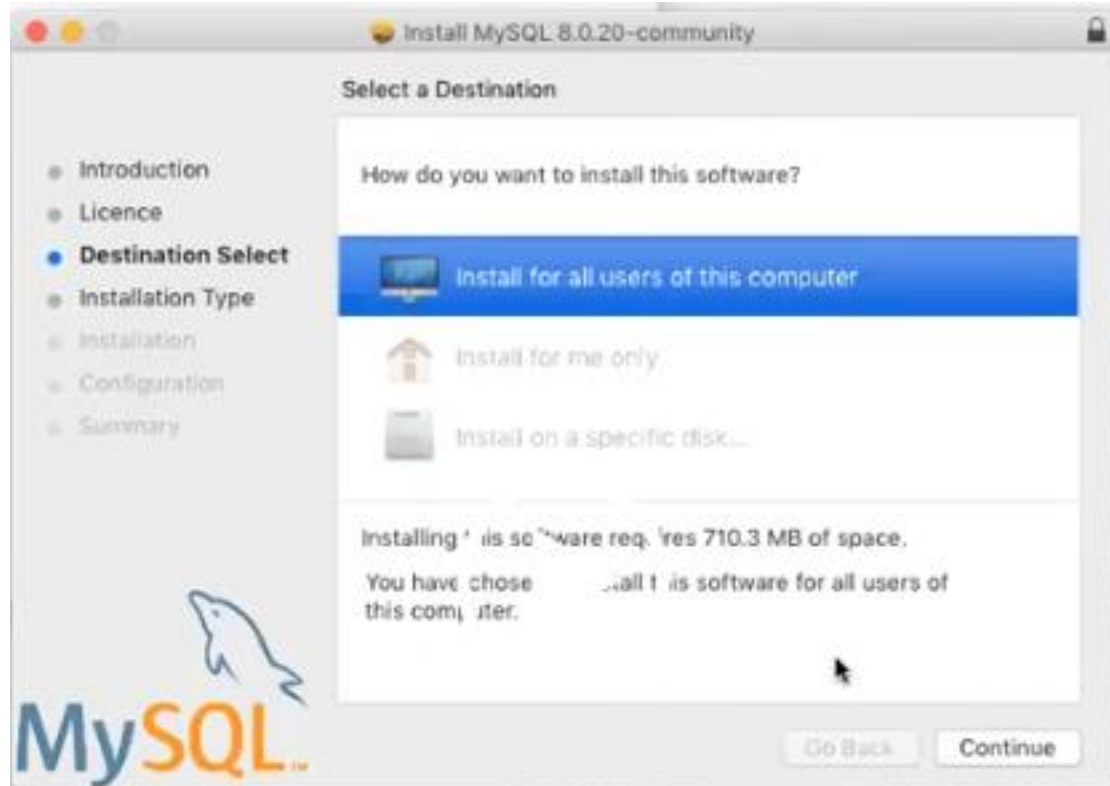
MySQL.com is using Oracle SSO for authentication. If you already have an Oracle Web account, click the Login link. Otherwise, you can signup for a free account by clicking the Sign Up link and following the instructions.

No thanks, just start my download.

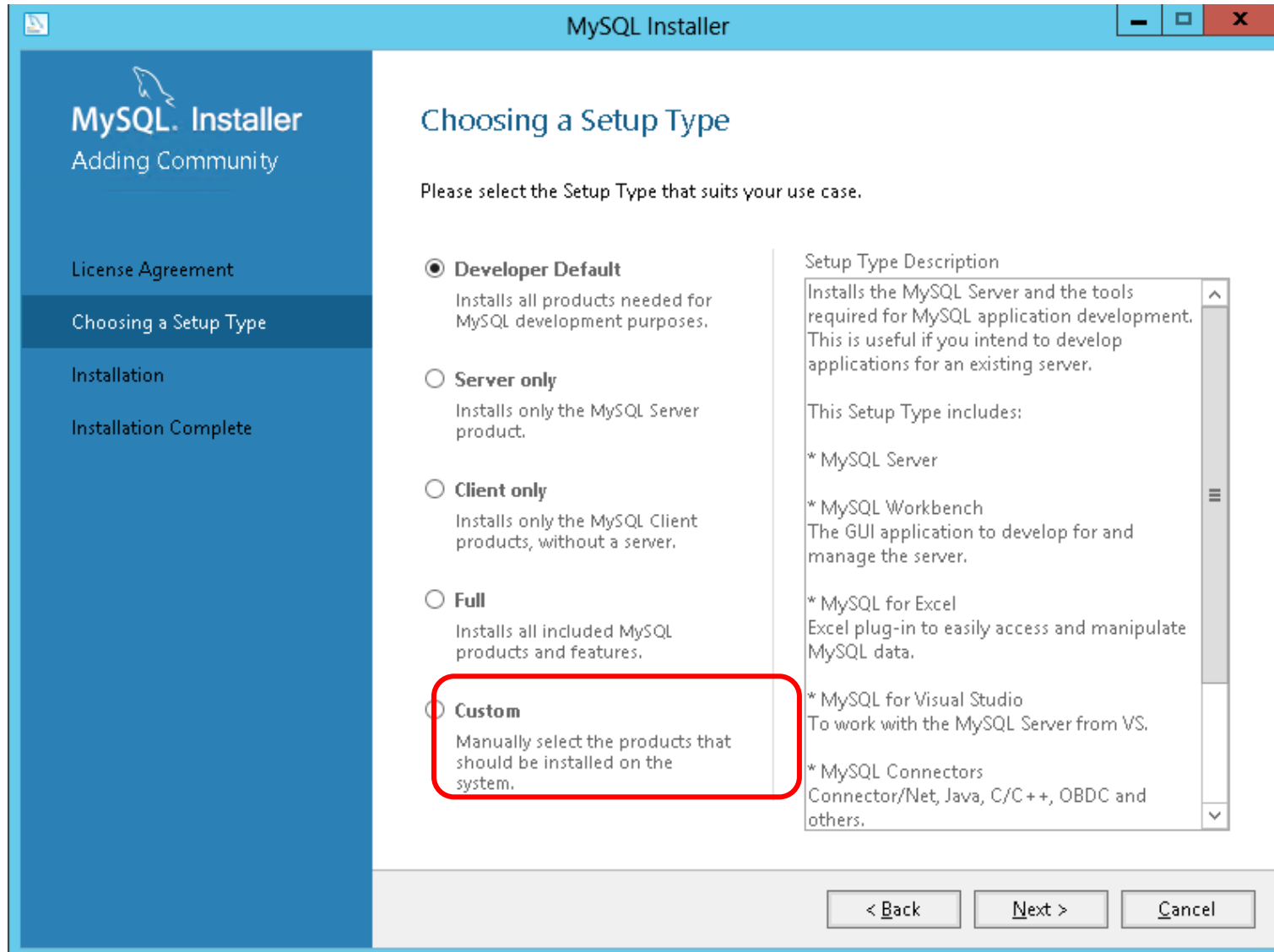
Installing MySQL Server on Mac



Installing MySQL Server on Mac



Installing MySQL Server on Windows



Windows: MySQL Custom Installation

MySQL Installer

MySQL. Installer
Adding Community

Choosing a Setup Type

Select Products

Installation

Product Configuration

Installation Complete

Select Products

Please select the products you would like to install on this computer.

Filter:
All Software, Current Bundle, Any Edit

Available Products:

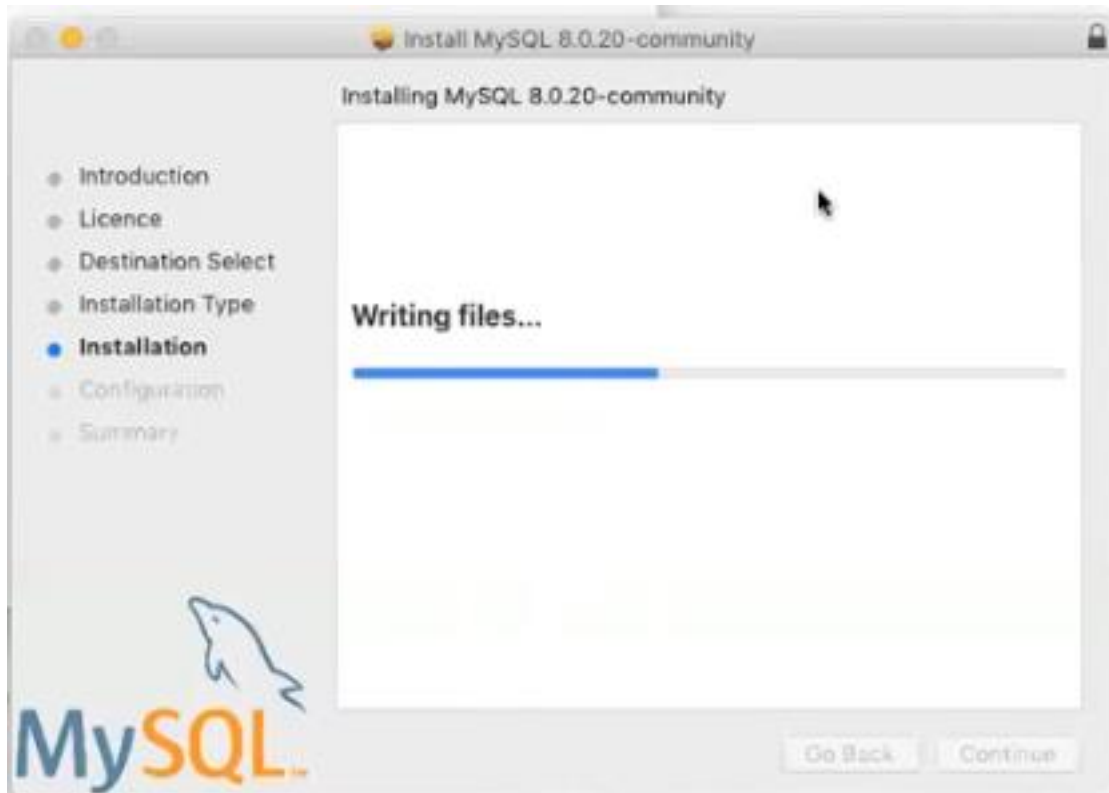
- MySQL Servers
 - MySQL Server
 - MySQL Server 8.0
 - MySQL Server 8.0.28 - X64
- Applications
 - MySQL Workbench
 - MySQL Workbench 8.0
 - MySQL Workbench 8.0.28 - X64
 - MySQL for Visual Studio
 - MySQL Shell
 - MySQL Router
 - MySQL Connectors
 - Documentation

Products To Be Installed:

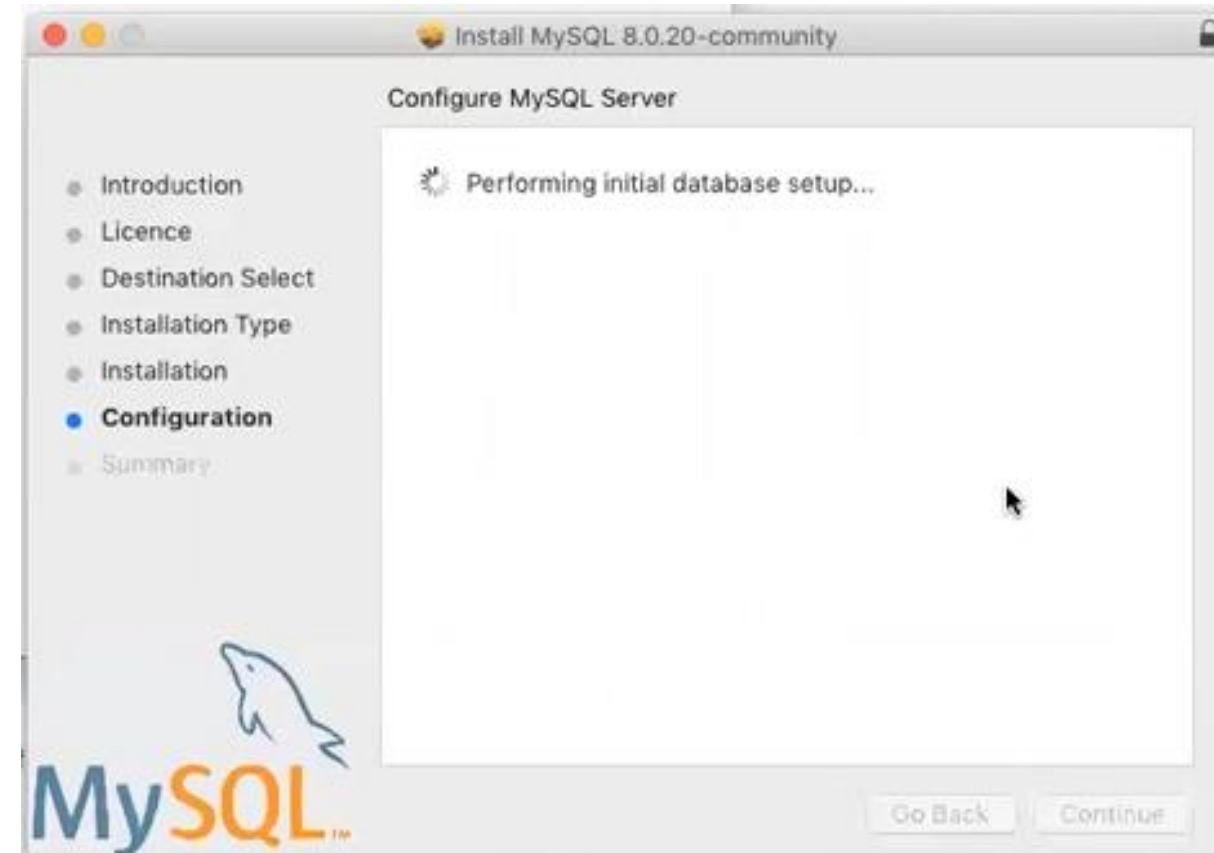
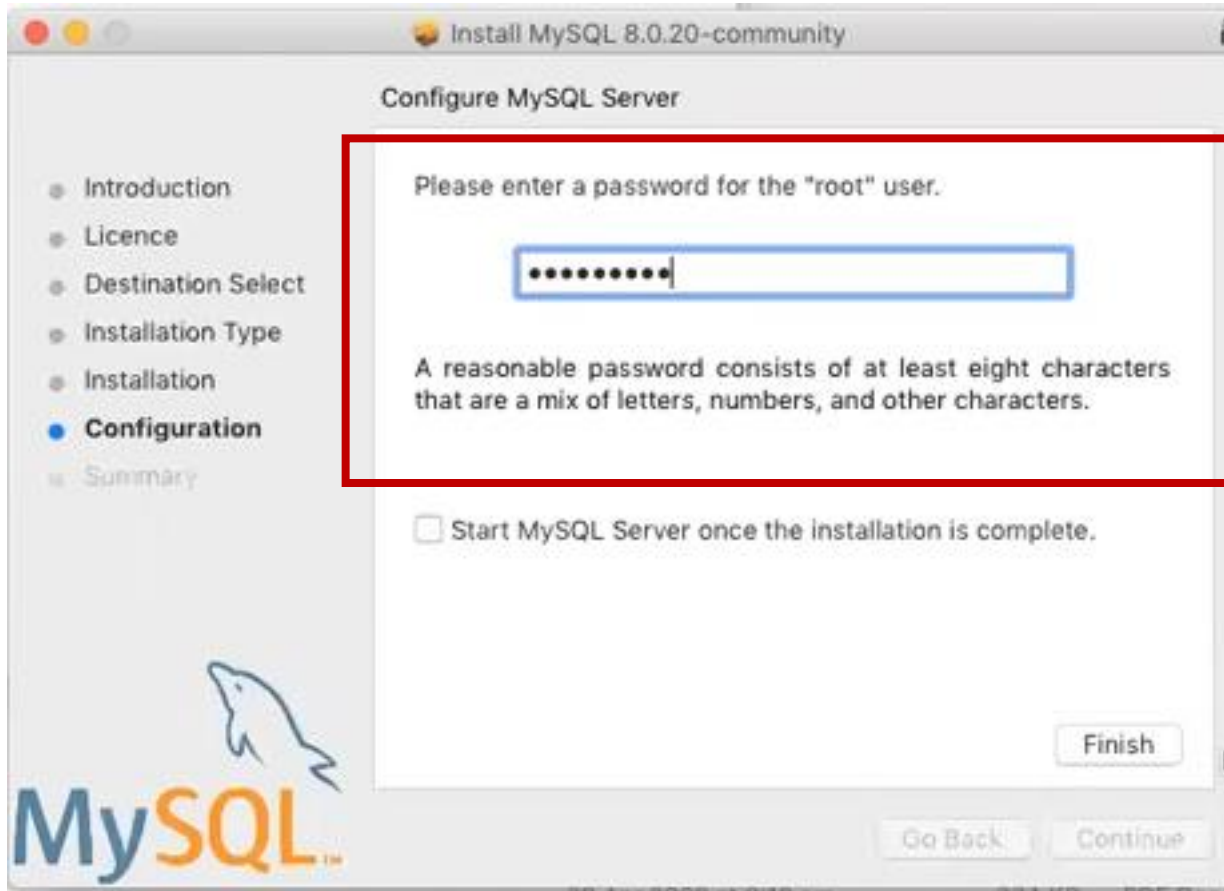
- MySQL Server 8.0.28 - X64
- MySQL Workbench 8.0.28 - X64

☐ Enable the Select Features page to customize product features

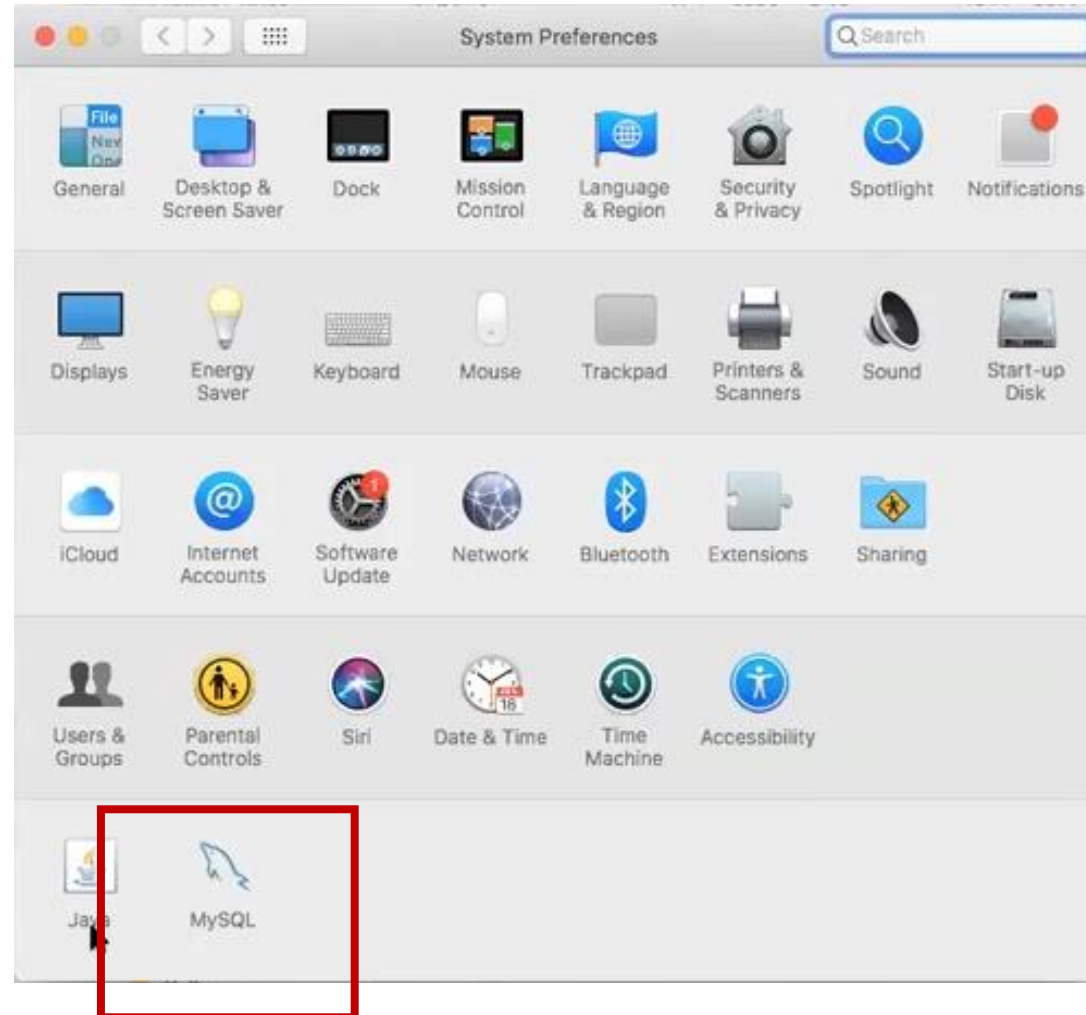
Installing MySQL Server on Mac



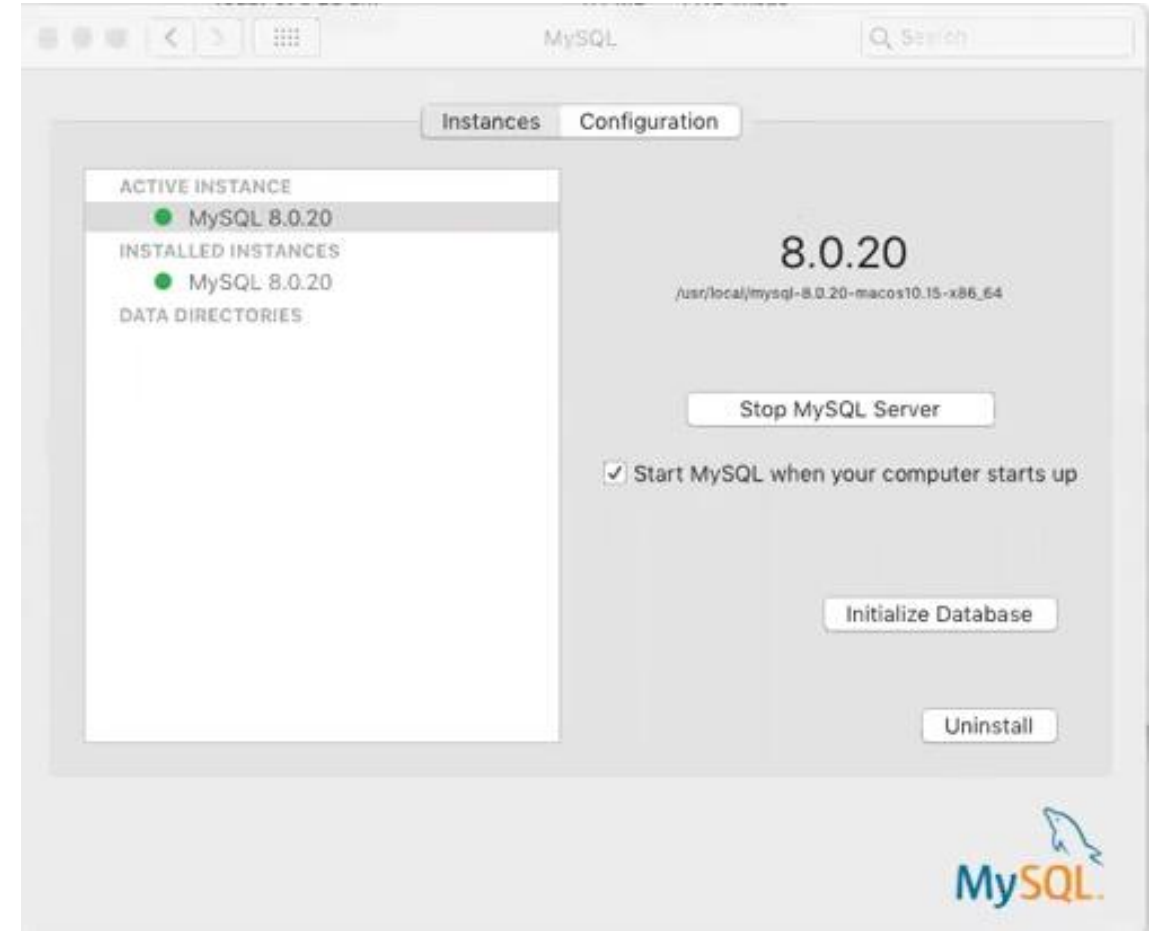
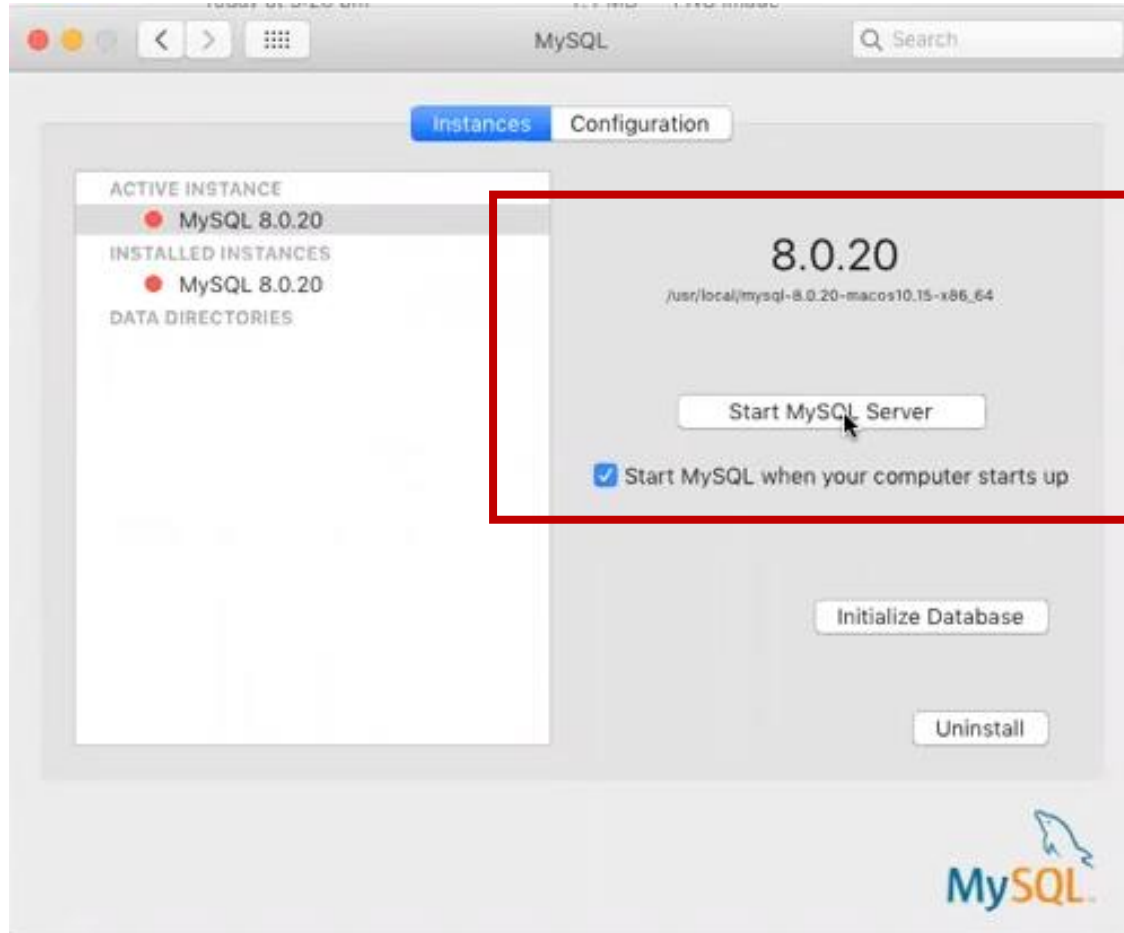
Installing MySQL Server



Installing MySQL Server



Installing MySQL Server

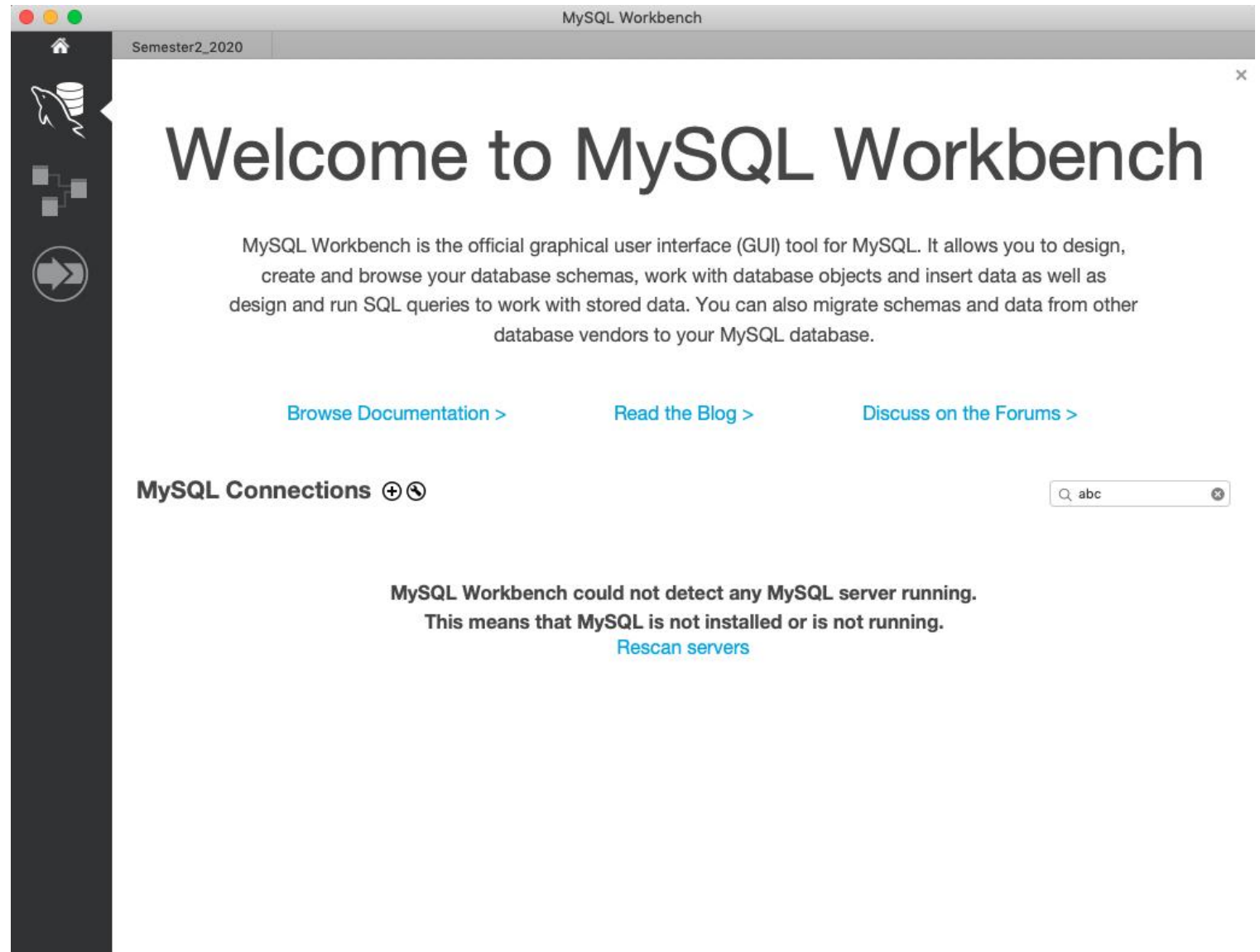


Installing MySQL Workbench





MySQL Workbench





Remove Safe Mode

- In the navigation menu, go to:

MySQLWorkbench >
Preferences >
SQL Editor

The screenshot shows the 'Workbench Preferences' dialog box with the 'SQL Editor' section selected in the left-hand navigation menu. The 'Safe Updates' checkbox is unchecked, and the 'OK' button is highlighted with a red box.

Workbench Preferences

- General Editors**
 - SQL Editor** (selected)
 - Query Editor
 - Object Editors
 - SQL Execution
- Administration
- Modeling**
 - Defaults
 - MySQL
 - Diagram
 - Appearance
- Fonts
- SSH
- Others

General Editors

- ☒ Save snapshot of open editors on close
- Auto-save scripts interval: 10 seconds (Interval to perform auto-saving of all open script tabs. The scripts will be restored from the last auto-saved version if Workbench unexpectedly quits.)
- ☐ Create new tabs as Query tabs instead of File
- ☒ Restore expanded state of the active schema objects

Sidebar

- ☒ Show Schema Contents in Schema Tree
- ☐ Show Metadata and Internal Schemas

MySQL Session

- DBMS connection keep-alive interval (in seconds): 600 (Time interval between sending keep-alive messages to DBMS. Set to 0 to not send keep-alive messages.)
- DBMS connection read timeout interval (in seconds): 30 (The maximum amount of time the query can take to return data from the DBMS. Set 0 to skip the read timeout.)
- DBMS connection timeout interval (in seconds): 60 (Maximum time to wait before a connection attempt is aborted.)

Other

- Internal Workbench Schema: .mysqlworkbench (This schema will be used by MySQL Workbench to store information required for certain operations.)
- ☐ Safe Updates (rejects UPDATES and DELETES with no restrictions)

Buttons: Cancel, OK

Uncheck

Remove Safe Mode on Windows

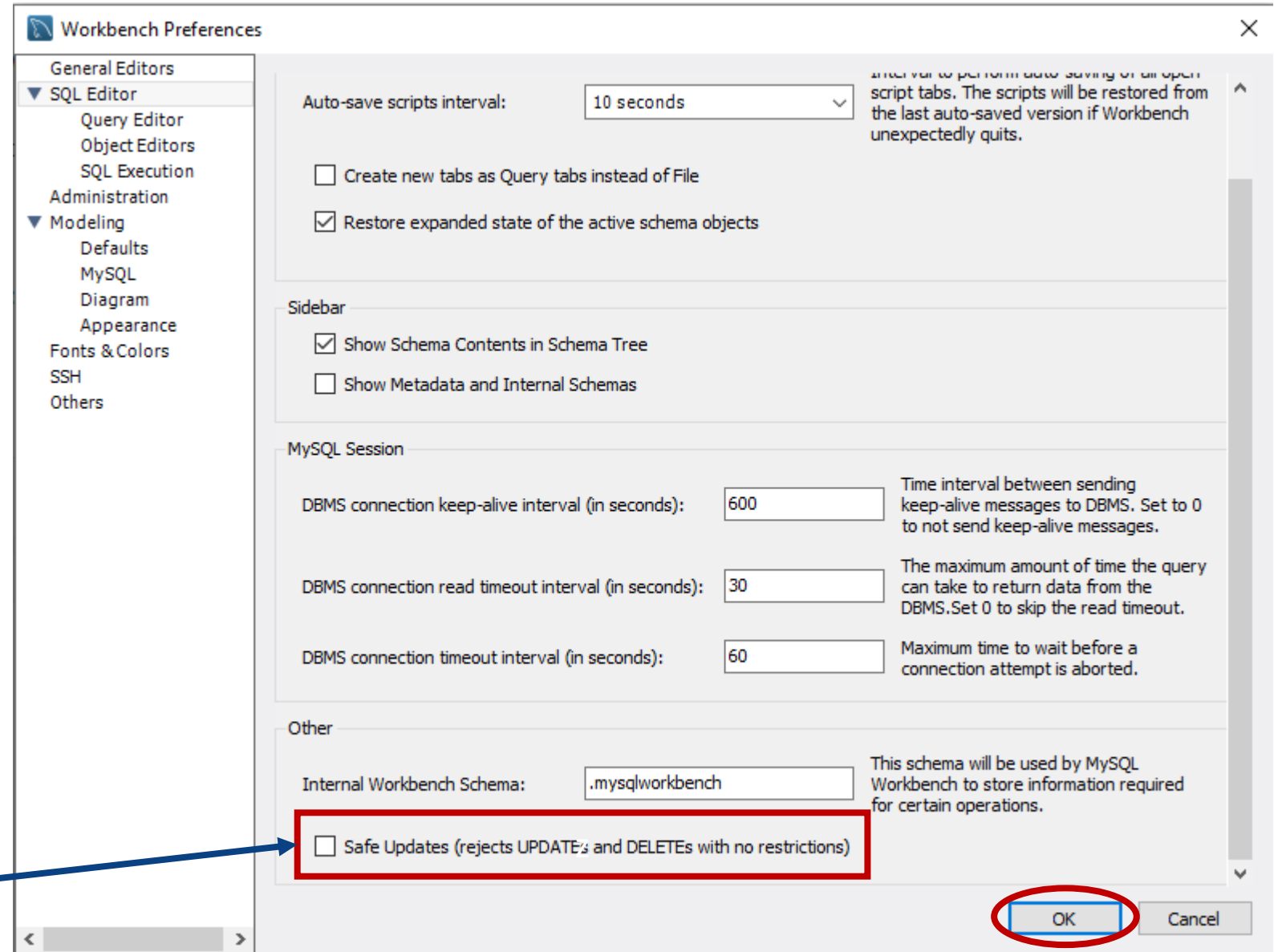
- In the navigation menu, go to:

Edit >

Preferences >

SQL Editor

Uncheck,
click OK





If you cannot connect to the server

- Ensure you are using your UNIMELB username
- Ensure that your username is in lowercase
- Ensure you are connected to the unimelb Wi-Fi or the VPN
(If you are on unimelb lab computer, you do not need VPN)
- Try retyping everything – you may have misspelt something



Exercise

Brainstorm:

- What tables could be used to create this order confirmation?
- What columns some of these tables could contain?
- See lecture 1 slides 25-26 for help

TICKETS ORDER

Order Date: 7/02/2022 4:00:10 PM

Order Number: 39727316

Customer Number: 21128361

Order Total: \$346.45

Your Account Information:

Mr John Lin

PO Box 180

PARKVILLE, VIC 3010

Description	Location	Seats	Price	Total
An American in Paris Wed 16 Mar 2022 7:30pm Arts Centre Melbourne, State Theatre	Circle	A 41	\$169.00	\$338.00
	Circle	A 42	\$169.00	
			Subtotal:	\$338.00
			Fees:	\$8.45
			Total:	\$346.45

For full Terms and Conditions, see our policies here: [Terms and Conditions](#)

To understand how we will use the information we have collected from you at time of purchase, please read our [Privacy Policy](#).



Thank you

- Use the discussion board (Ed discussions) in Canvas if you are having issues with the installation of Workbench.
- Please detail your:
 - Operating system
 - Issue
 - Screenshot of issue