

SIT103/SIT772 Fundamentals of Database



Pass Task 1.2P: MySQL Installation

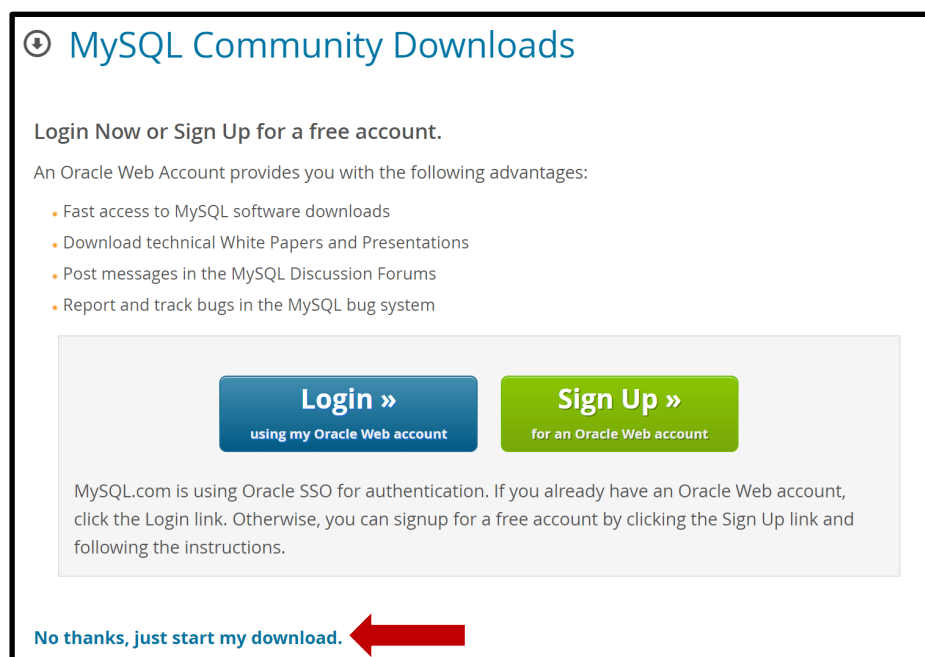
Overview

In this task, you are required to download MySQL Community Server and MySQL Workbench in your machine and have our SQL environment setup for the unit. MySQL Community Server is an open-source Relational Database Management System (RDBMS), and MySQL Workbench is an interface to access/interact with MySQL.

Tasks to do:

- Download and install MySQL Community Server and Workbench in your machine

When you download MySQL products, you will be given an option to Login to MySQL account. You do not have to do it, just select **"No thanks, just start my download"** option at the bottom of the page.



WINDOWS MACHINE

Both Server and Workbench are available in the MySQL Community installation package
<https://dev.mysql.com/downloads/windows/installer/8.0.html>

MySQL Community Downloads

MySQL Installer

General Availability (GA) Releases Archives

MySQL Installer 8.0.29

Select Operating System:
 Microsoft Windows Looking for previous GA versions?

Windows (x86, 32-bit), MSI Installer (mysql-installer-web-community-8.0.29.0.msi)	8.0.29	2.3M	Download
MD5: 4f735569267527dec28d9e8d977f33d1 Signature			
Windows (x86, 32-bit), MSI Installer (mysql-installer-community-8.0.29.0.msi)	8.0.29	439.6M	Download
MD5: 3f4def7aef5e2e030e2dd62e784f246 Signature			

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

Note that the installer has other MySQL and related products, but we only need Community Server and Workbench. You can follow instructions in the following YouTube video. [How To Install MySQL \(Server and Workbench\)](#)

Select Custom Installation Type

MySQL Installer

MySQL. Installer
Adding Community

Choosing a Setup Type

Select Products

Download

Installation

Installation Complete

Choosing a Setup Type

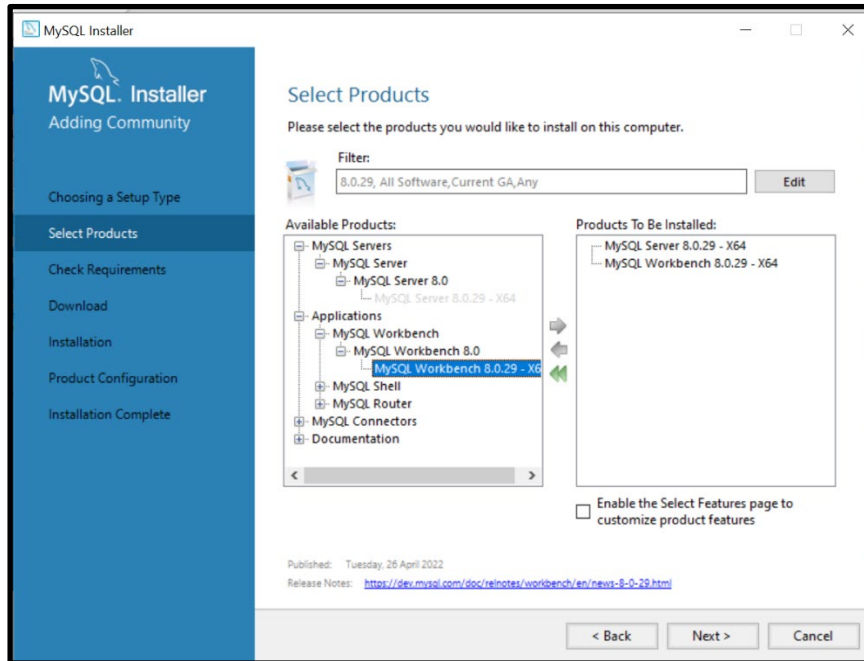
Please select the Setup Type that suits your use case.

- ☐ **Developer Default**
Installs all products needed for MySQL development purposes.
- ☐ **Server only**
Installs only the MySQL Server product.
- ☐ **Client only**
Installs only the MySQL Client products, without a server.
- ☐ **Full**
Installs all included MySQL products and features.
- ☒ **Custom**
Manually select the products that should be installed on the system.

Setup Type Description
 Allows you to select exactly which products you would like to install. This also allows to pick other server versions and architectures (depending on your OS).

[Next >](#) [Cancel](#)

Select the latest version of MySQL Server and MySQL Workbench.



Note that some other required products such as Microsoft Visual C++ may also need to be installed if they are not already installed in your system.

IMPORTANT NOTE: You will be asked to setup a **password for the “root” user** while configuring your MySQL server during installation. Remember this password as you need it every time you connect to the MySQL Server.

MAC MACHINE

You need to download MySQL Community Server and MySQL Workbench separately.

Install MySQL Community Server from:

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

Install MySQL Workbench from:

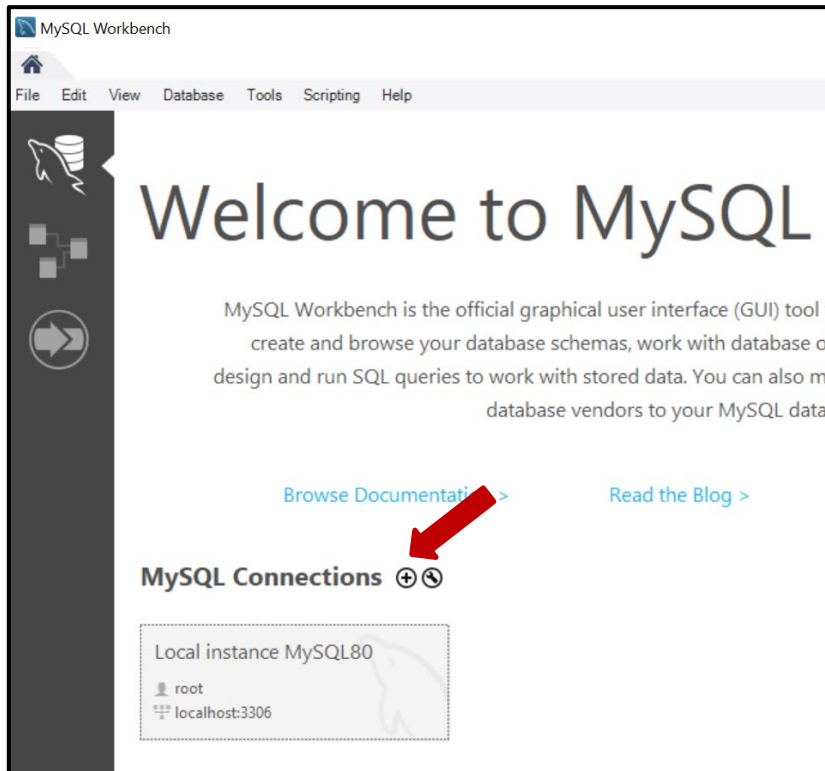
<https://dev.mysql.com/downloads/workbench/>

YouTube Video Mac Installation

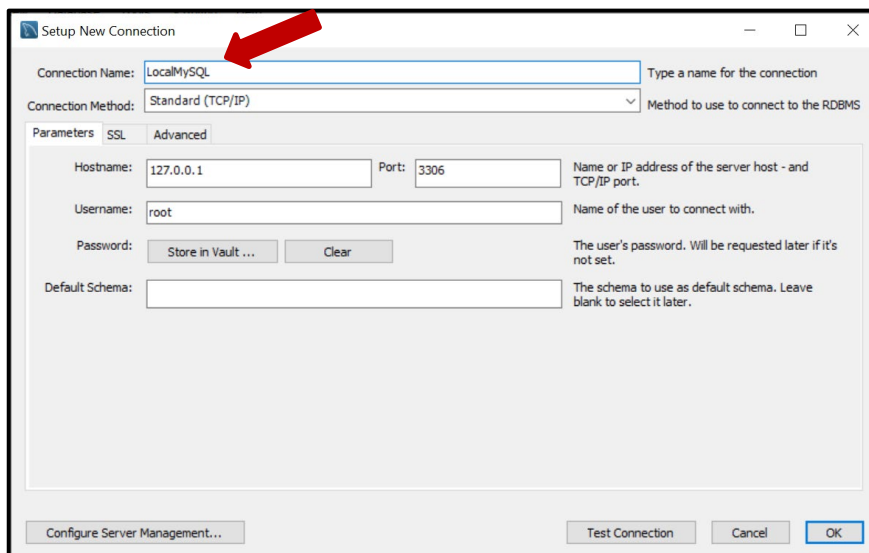
[Mac MySQL Community Server and Workbench Install](#)

Connection to MySQL server from MySQL Workbench

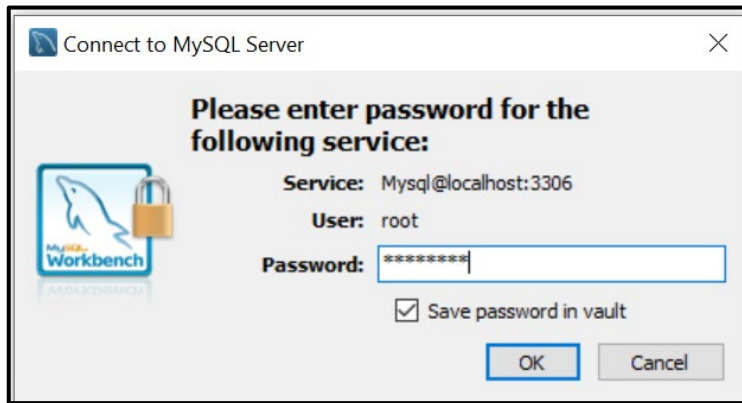
Open MySQL Workbench



You may have a connection to *localhost* already as shown in the figure above. If not, add one clicking the little **+** sign. Leave all default settings and give a name to the connection, you can give any name like “*LocalMySQL*”. Note that hostname defined by IP address 127.0.0.1 is the localhost or local machine.



Click the established connection to connect to the database. You will be prompted for the *root* user password. Provide the password that you setup while installing MySQL earlier. You can save the password in vault so that you do not have to provide later.



Connecting to MySQL in remote server (Optional)

Using MySQL workbench, we can connect to MySQL databases in remote servers as well. If you do not want to install MySQL Community Server in your machine, you can use the MySQL server hosted by Deakin University. You can create a database in the Deakin MySQL server via the self-serve web application located at <https://intranet-apps.deakin.edu.au/db-self-serve/home>. Follow the prompts to create a MySQL database, you will be provided with your database details.

MySQL Databases

Staff and students are able to access up to 3 MySQL databases for teaching and learning use.

These databases are hosted on the server interact-mariadb-f1.its.deakin.edu.au ← Server Name

Your Databases

i Test Complete

Successfully connected to ssid_sunilaryal_1. Your database contains 1 table.

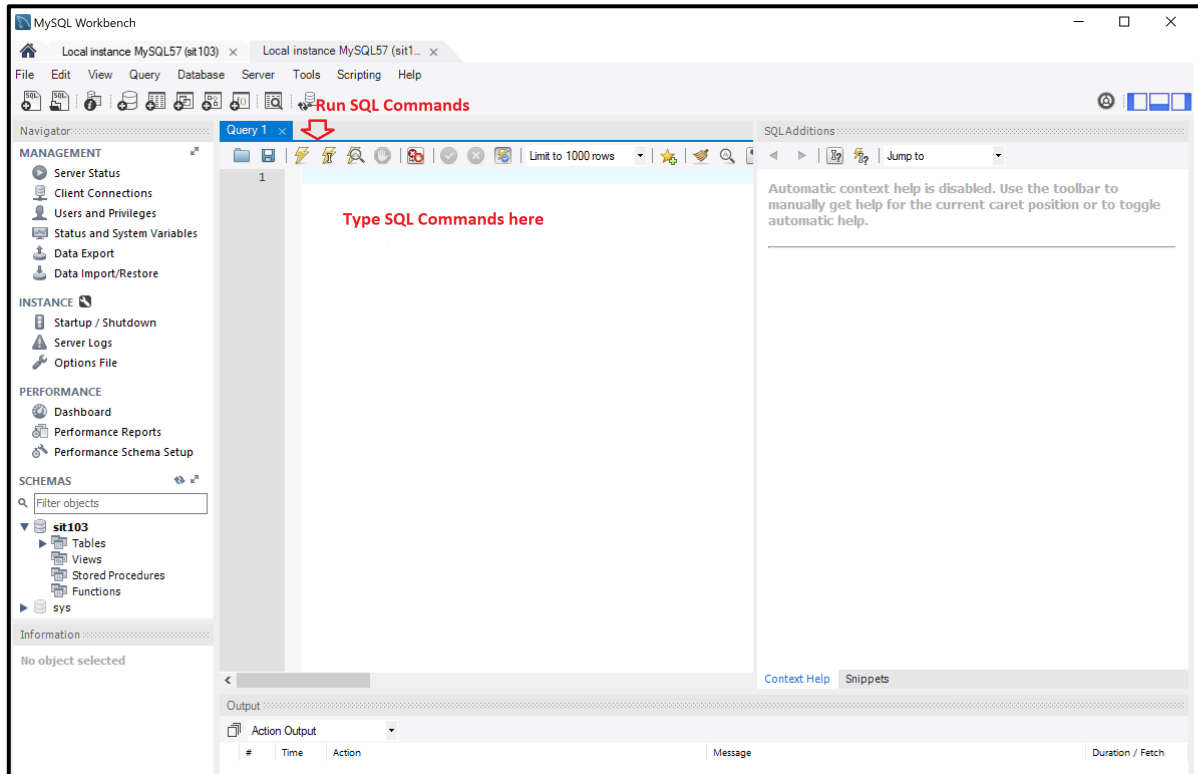
Database Name	Username	Password	Creation Time	Actions
ssid_username_1	ssid_username_1	ssidusername1password	2022-06-11 07:20:12	Test Delete

You can use the details to establish a new connection via MySQL Workbench.

You can find more help on self-service Databases at https://help.deakin.edu.au/ithelp?id=it_kb_article&sys_id=183786e31b674d10456143bdcc4bcbce

Using MySQL Database

Open MySQL Workbench and click on the connection setup earlier.



Try following SQL Commands:

```
create database SIT103;
show databases;
use SIT103;
show tables;
create table student_test (ID int primary key, Name varchar(25));
show tables;
desc student_test;
insert into student_test values (1234, 'Peter John');
select * from student_test;
```

NOTE: You will get an error if you try to create database/table with the same name that already exists. So skip the create database/table commands if you are doing the above commands again. Similarly, you will get error when you try to insert the same record (1234, 'Peter John') again if it already exists. MySQL does not allow you to add two records with the same ID 1234 because ID is the primary key in the student table which must be unique. We will cover this later in the unit.

Submission Details

Submit a screenshot of your entire MySQL Workbench window after executing the final SQL

command **select * from** student_test;

Submission Due

The due for each task has been stated via its OnTrack task information dashboard.