Development Environment Set-Up

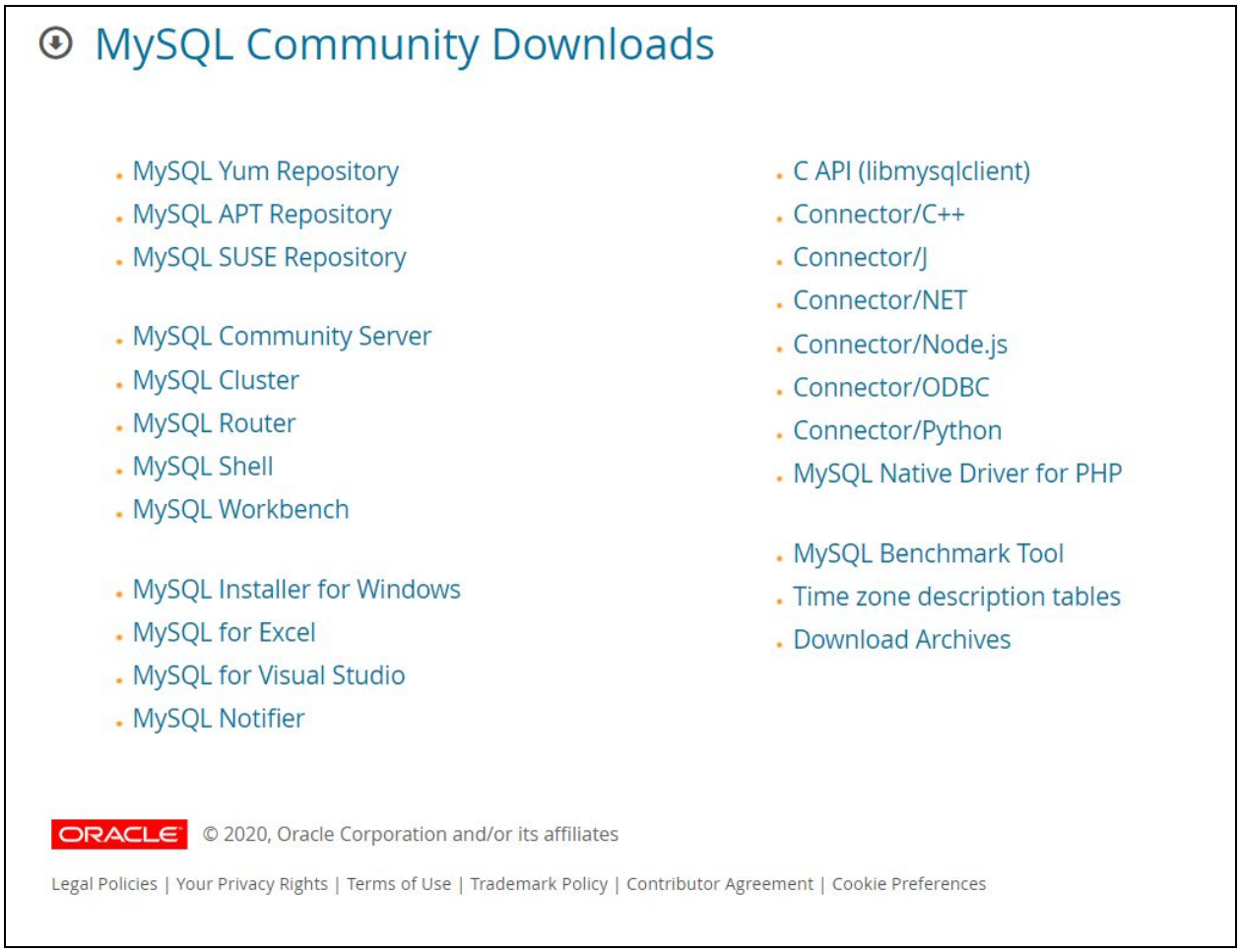
This document contains the steps that you need to follow to install MySQL and Node.js. These software will be used later to develop the back end and front end of web applications.

macOS

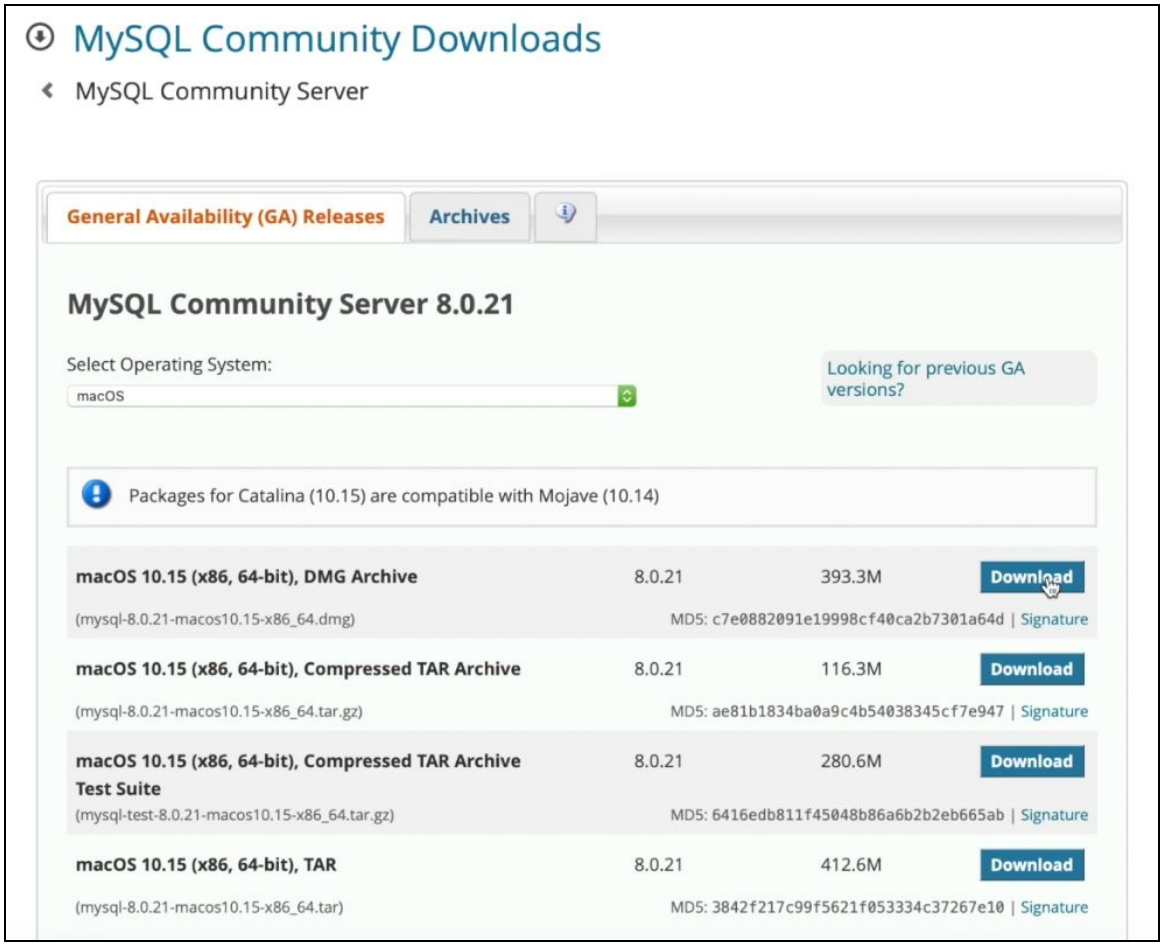
MySQL

Step 1: Go to this link to download the MySQL installers.

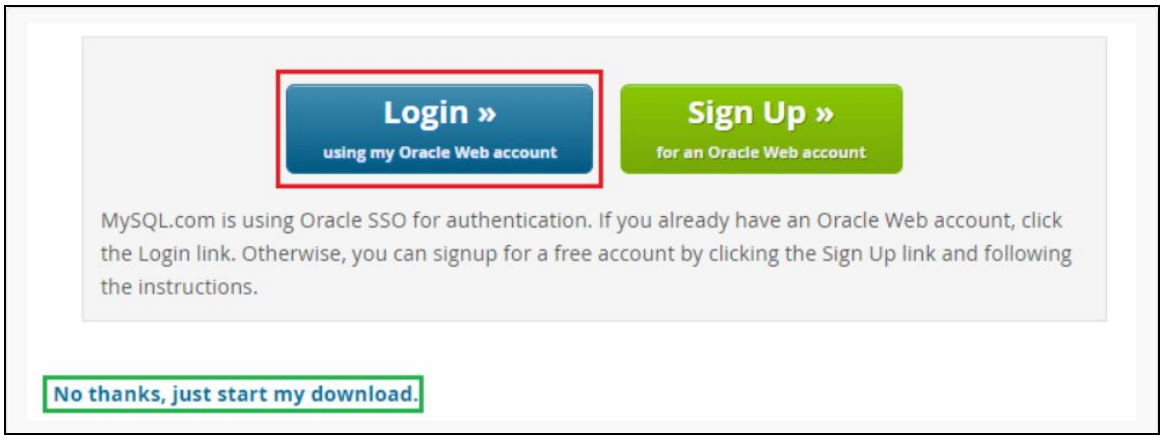
Step 2: Click on ‘MySQL Community Server’.



Step 3: Click the ‘Download’ button to download the ‘DMG Archive’ file.



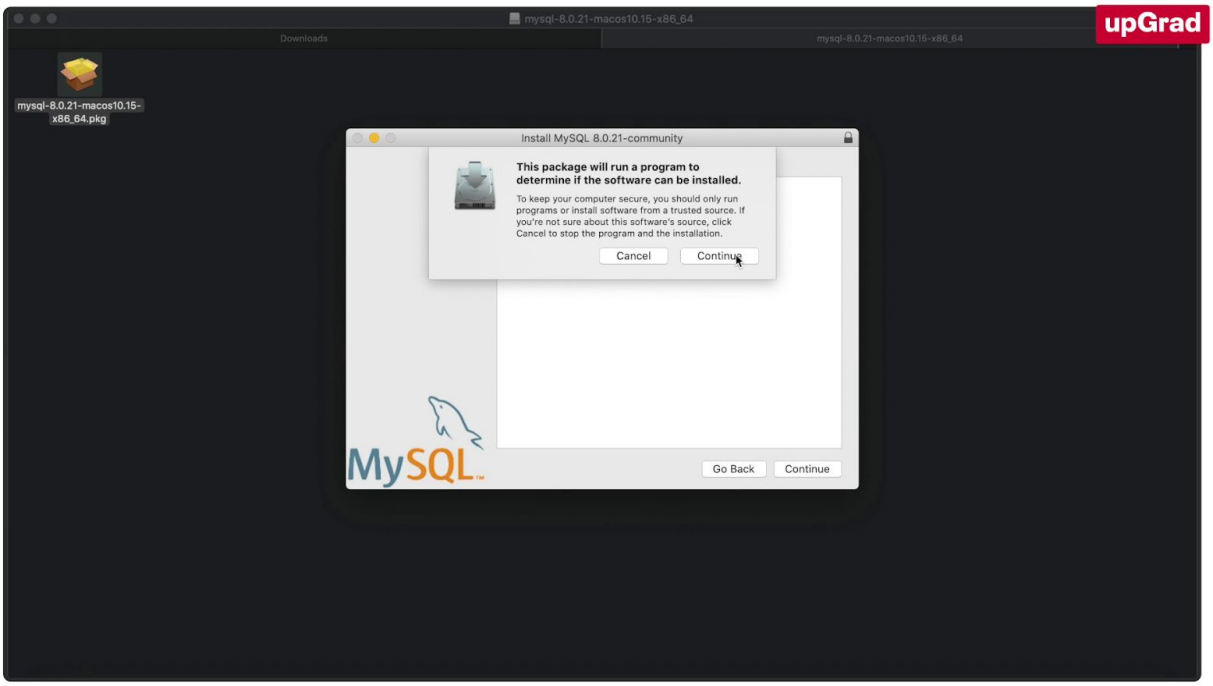
Step 4: It will ask you to log in with your Oracle account. You can either log in or click on ‘No thanks, just start my download’.



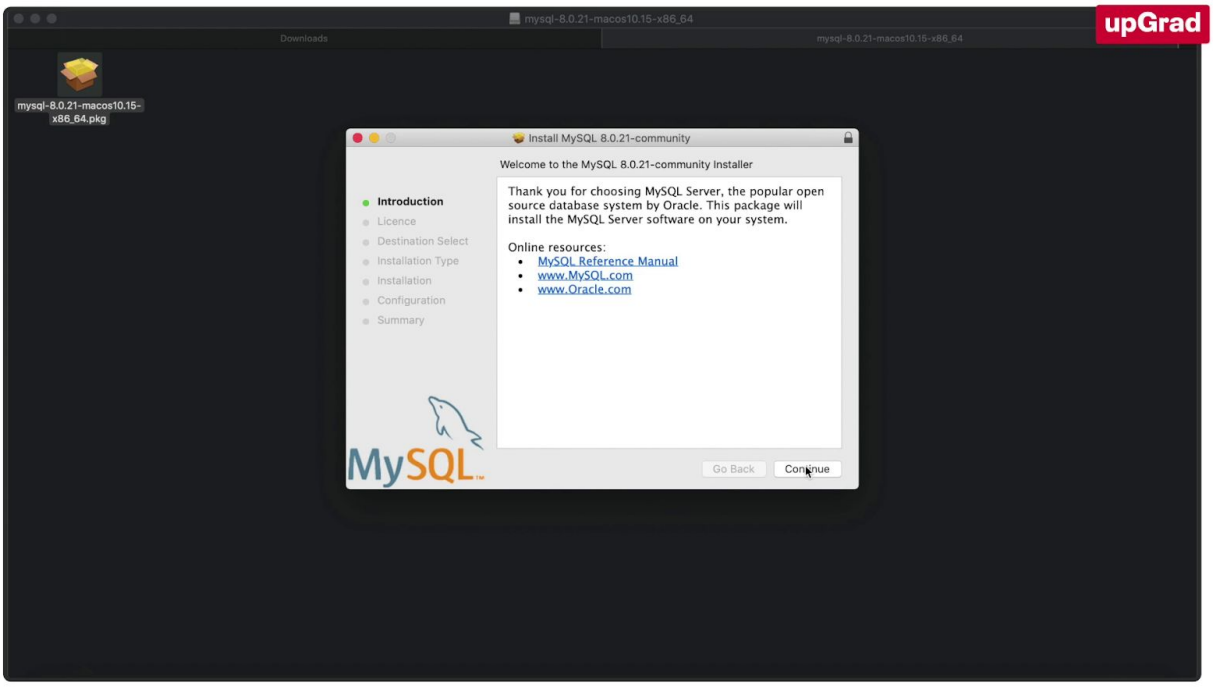
Step 5: Repeat steps 1–4 to download ‘MySQL Workbench’.

Step 6: Double click on the downloaded .dmg file for MySQL Community Server. Once it opens, double click on the .pkg file to begin the installation.

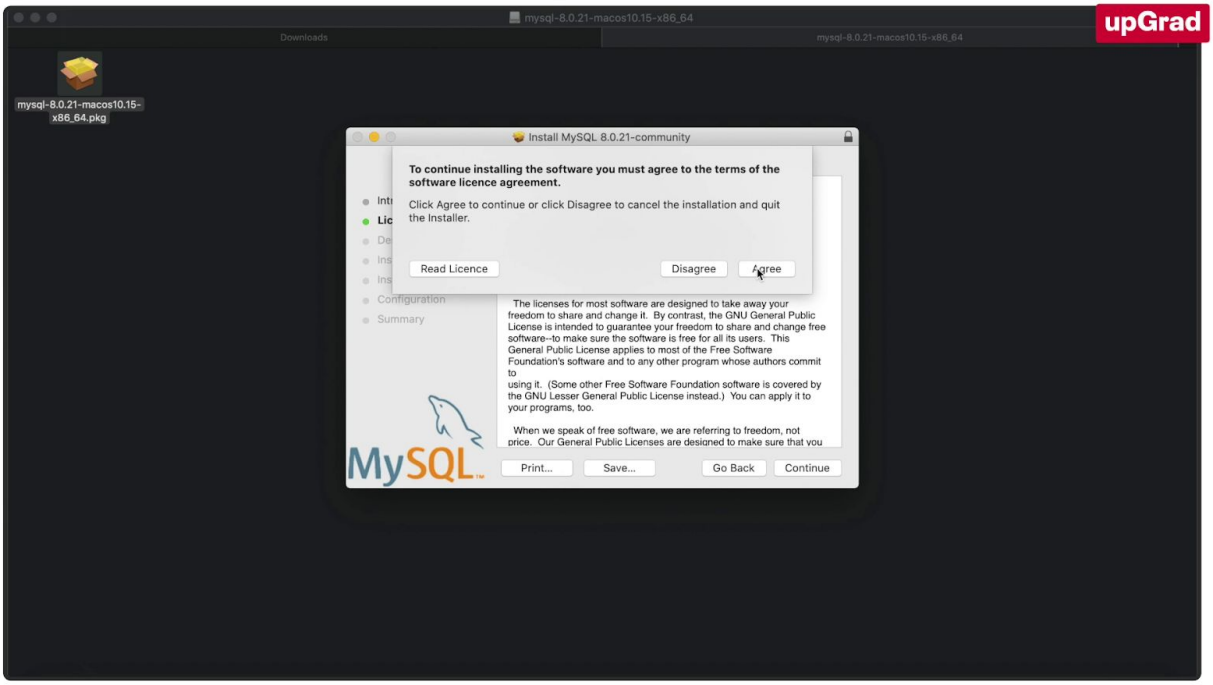
Step 7: Click ‘Continue’.



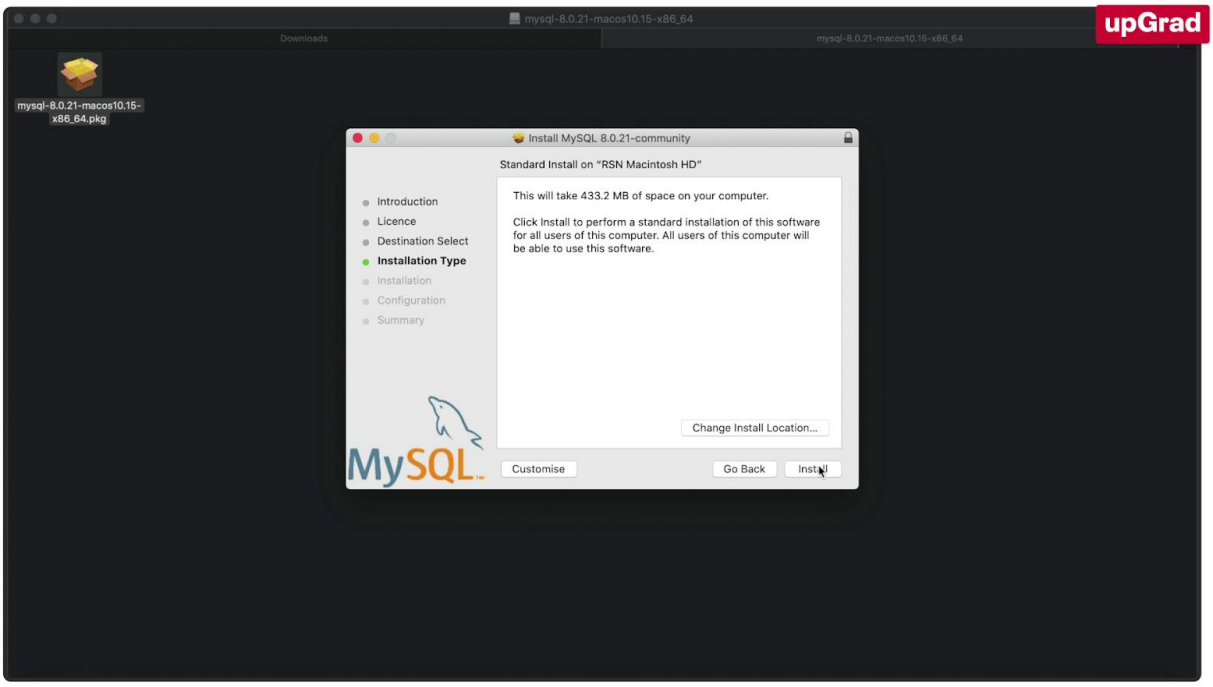
Step 8: Click ‘Continue’.



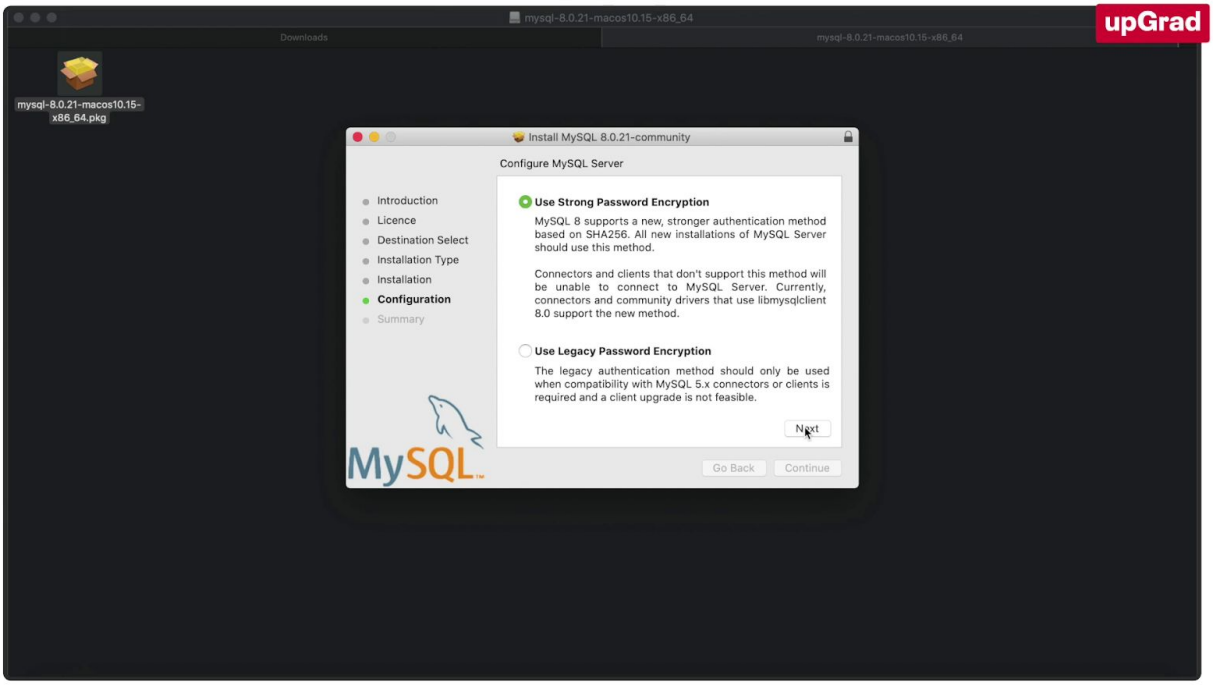
Step 9: Click ‘Agree’.



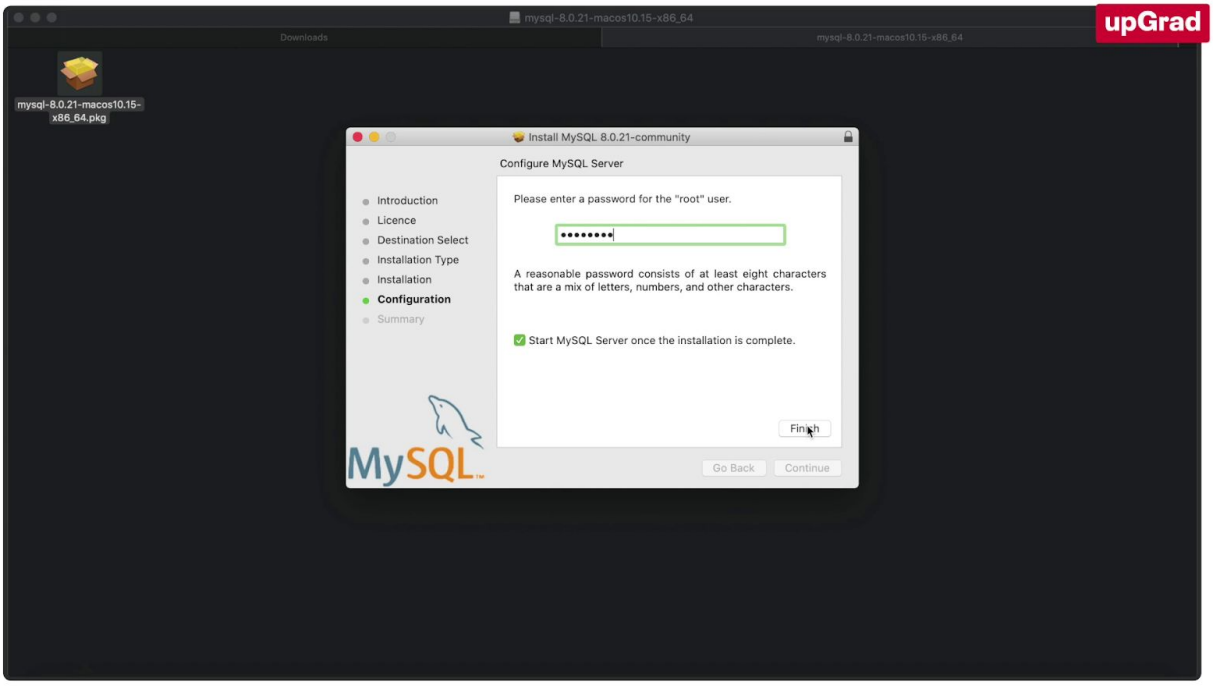
Step 10: Click ‘Install’ (You will be asked to enter your Mac password.).



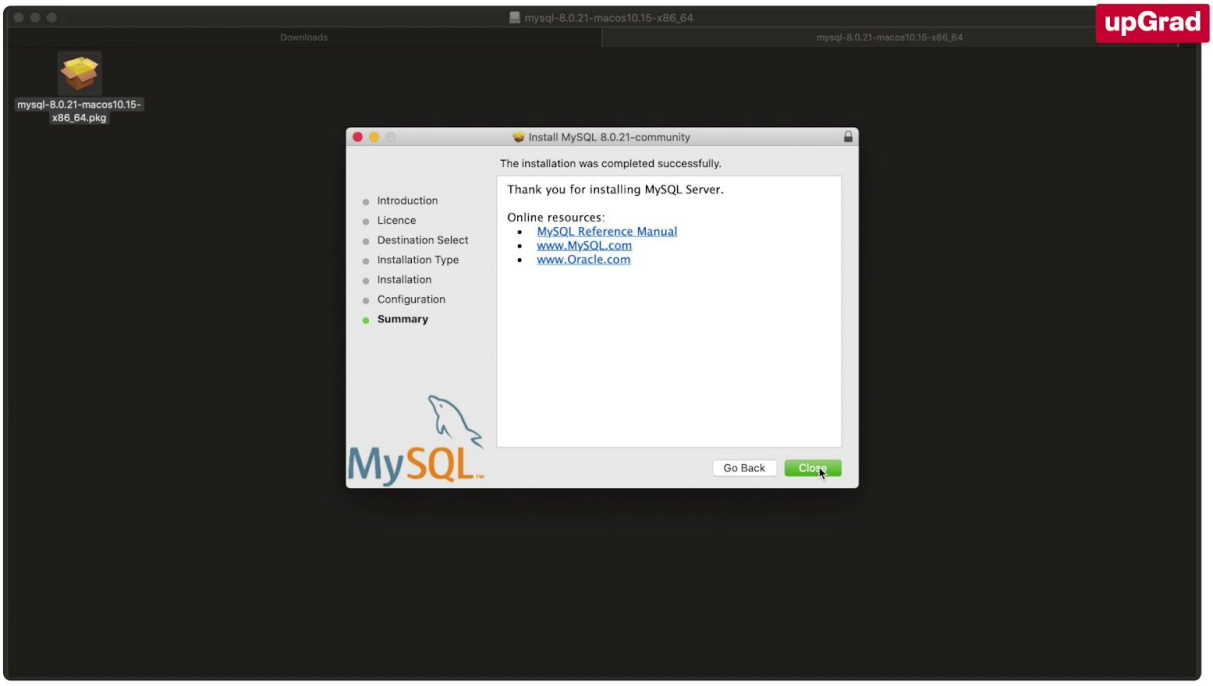
Step 11: Click on ‘Next’.



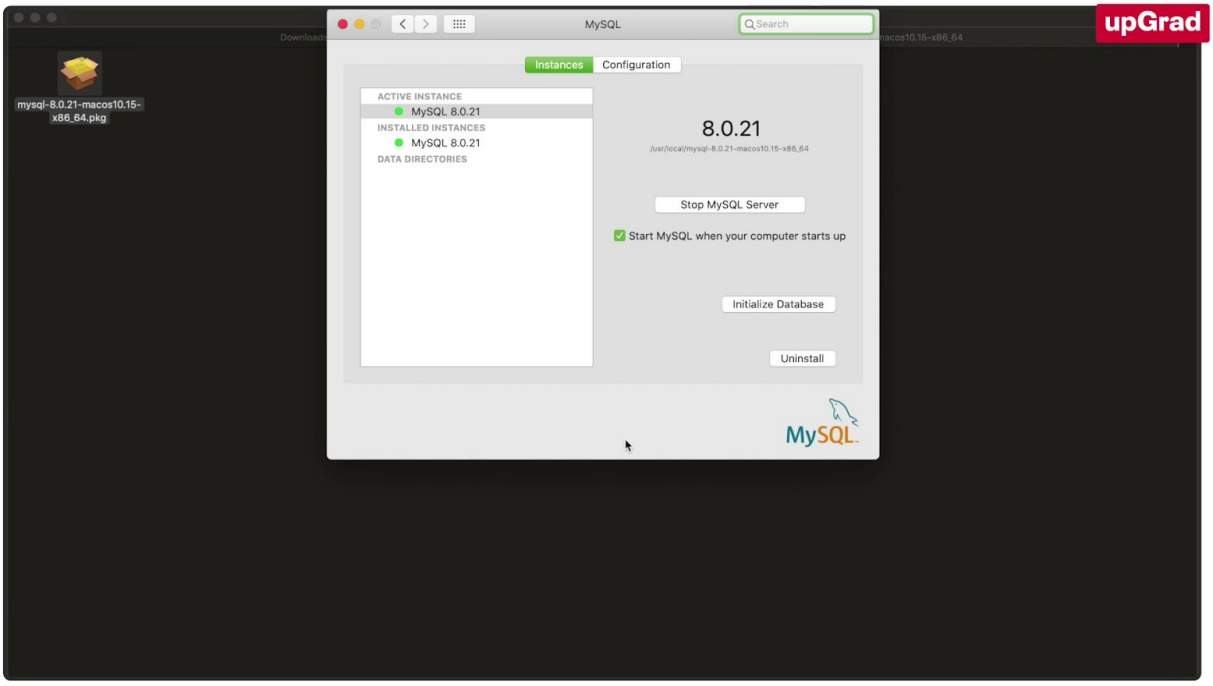
Step 12: Enter a password and remember it, as you will need it later. Click ‘Finish’ (You will be asked to enter your Mac password.).



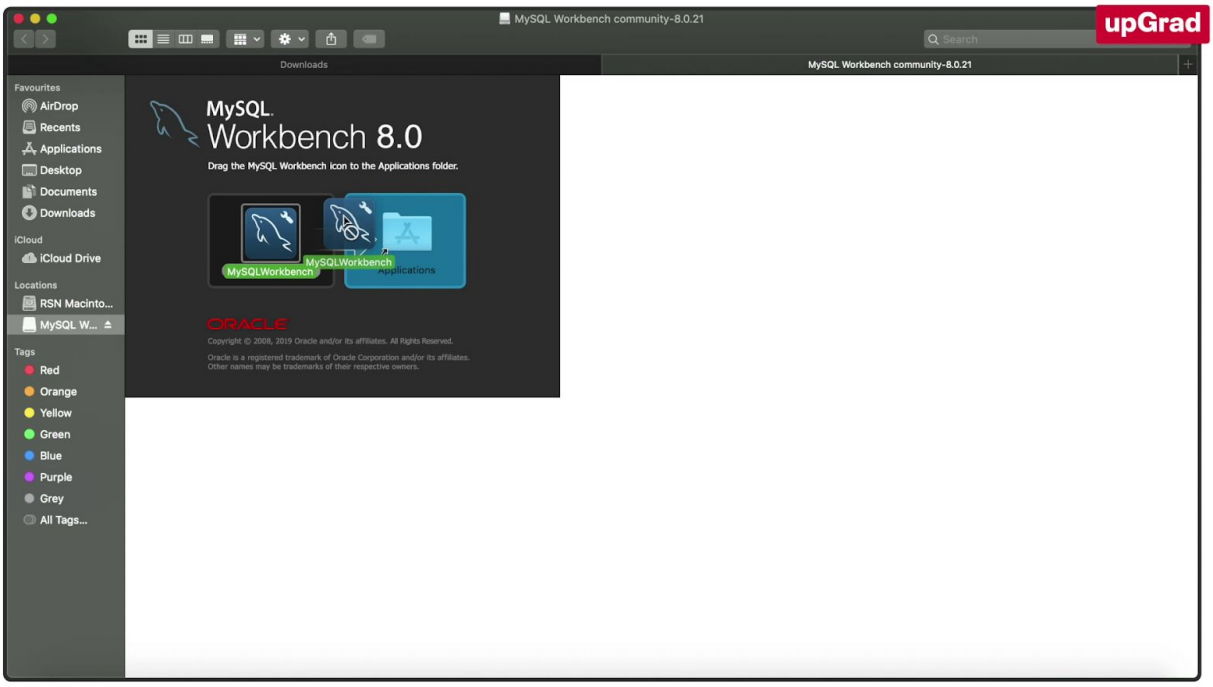
Step 13: Click ‘Close’.



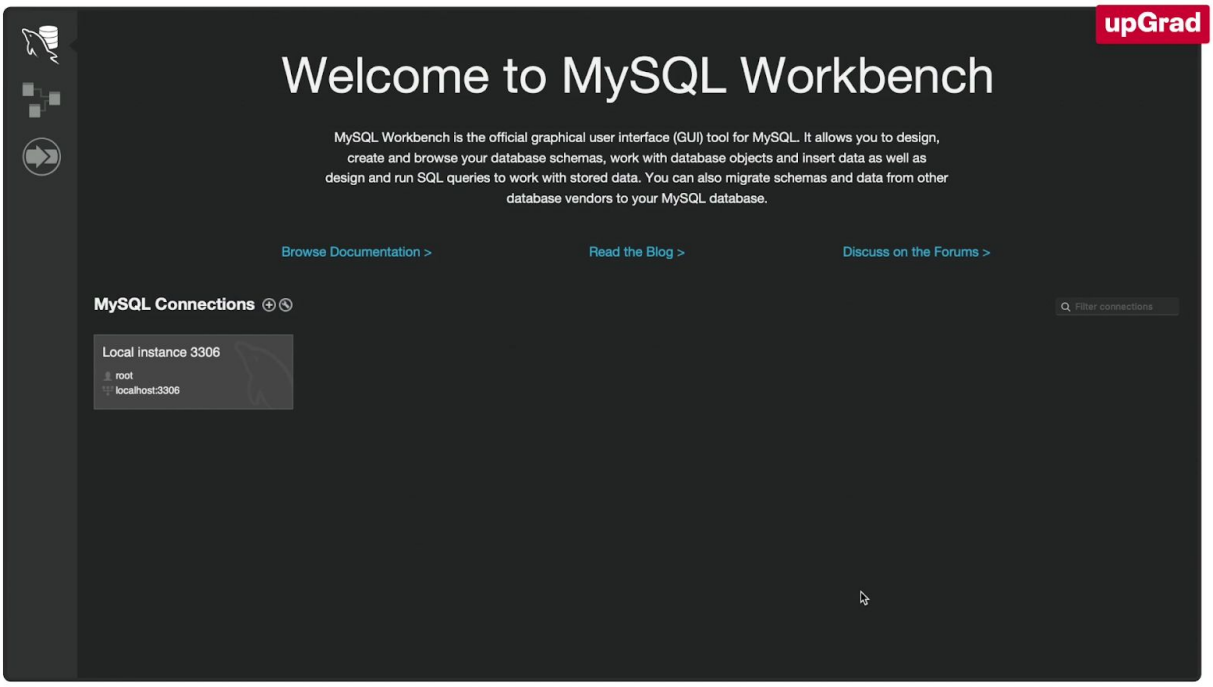
Step 14: You will find ‘MySQL’ at the bottom of your settings pane. Click on it to open it. You will see the following page after opening it.



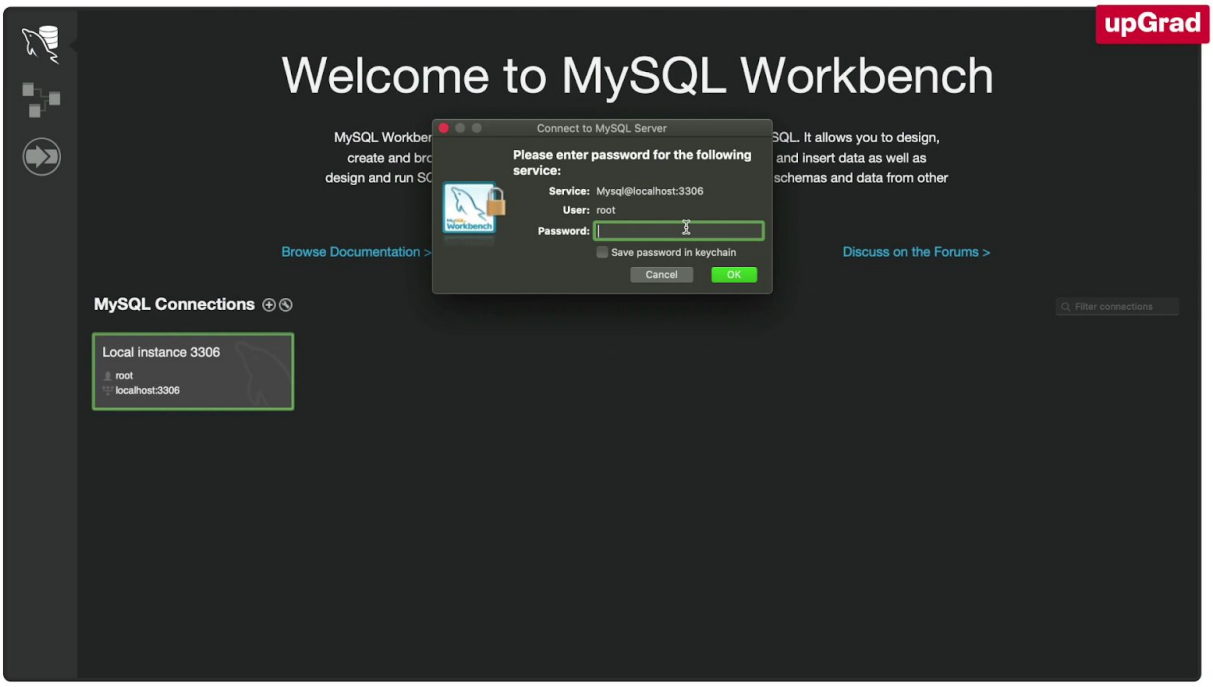
Step 15: Next, you need to install ‘MySQL Workbench’. Double click on the .dmg file for ‘MySQL Workbench’ and drag the ‘MySQL Workbench’ icon to the ‘Applications’ folder.



Step 16: When you open ‘MySQL Workbench’, you will see the following page.



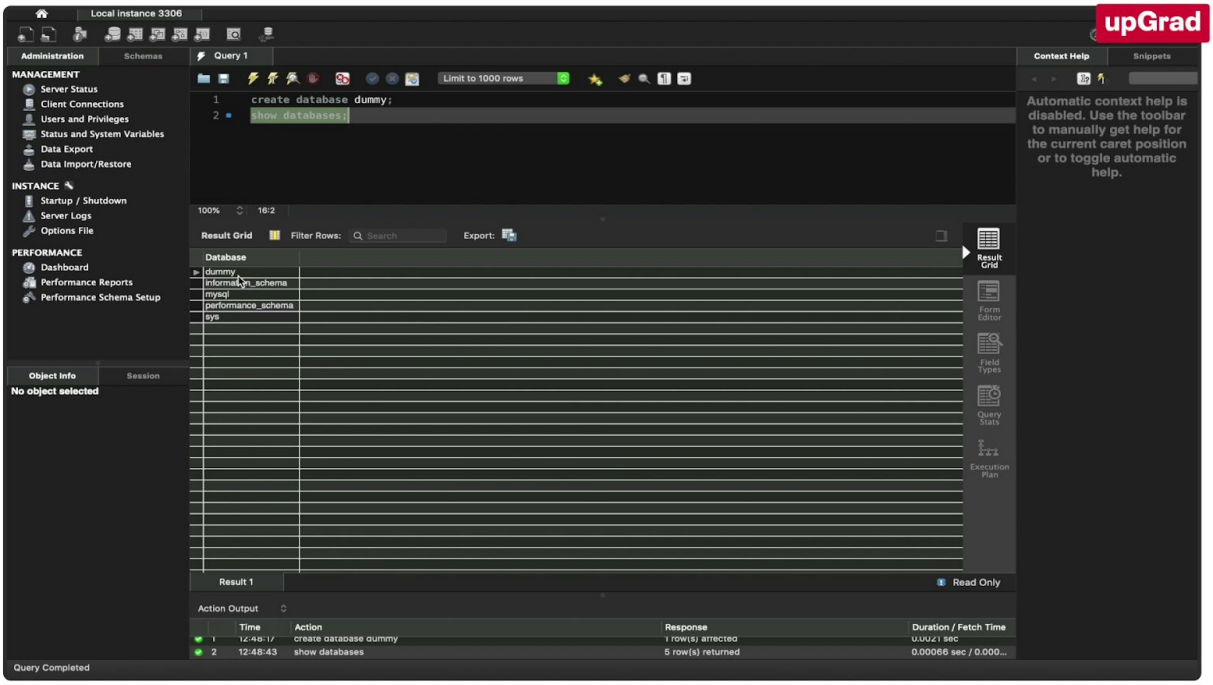
Step 17: Double click on ‘Local Instance’ and enter your MySQL password (that you set in Step 12).



Step 18: In order to check whether the MySQL installation has happened properly, let's create a dummy database and check whether it gets created. To do so, execute the following commands in MySQL Workbench.

```
create database dummy;
show databases;
```

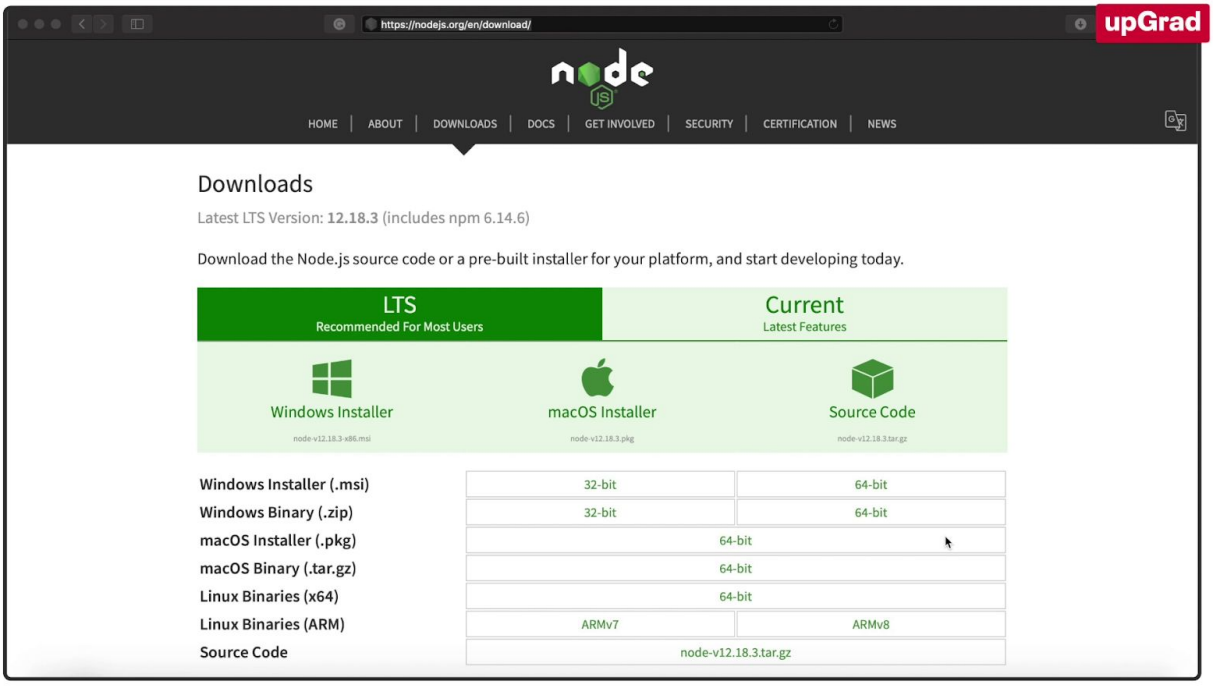
You will see that a database named 'dummy' gets created.



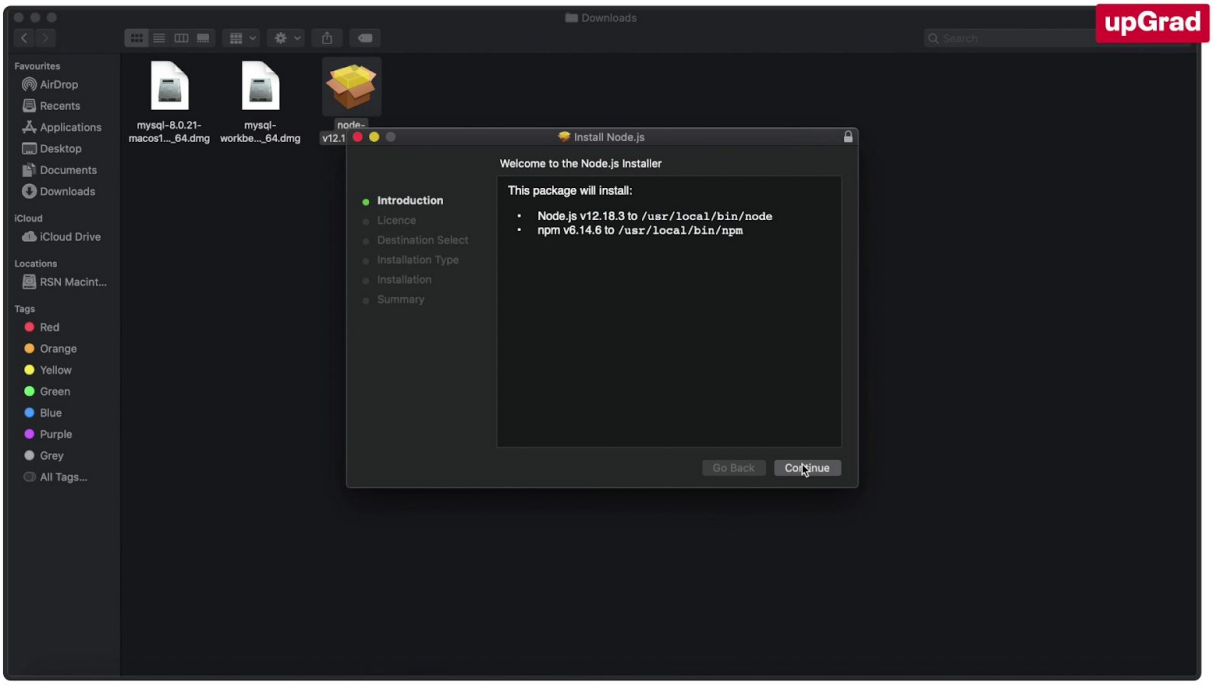
Node.js

Step 1: Go to this link to download the Node.js installer.

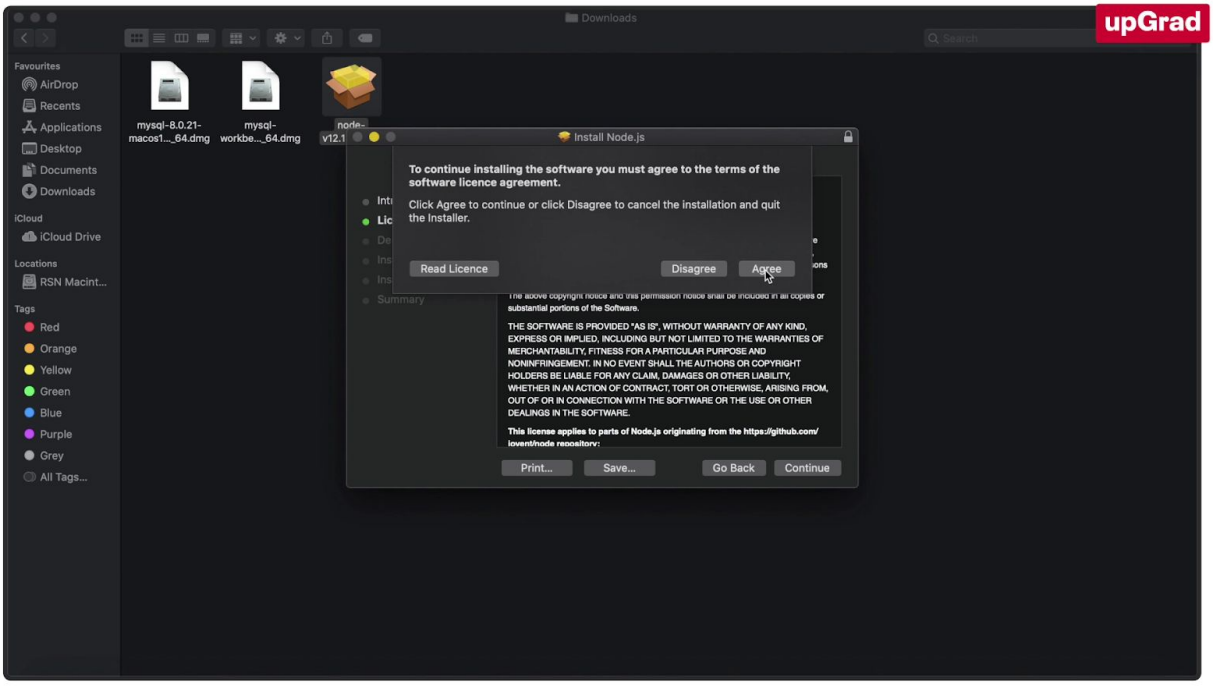
Step 2: Click on the ‘macOS Installer (.pkg)’ option.



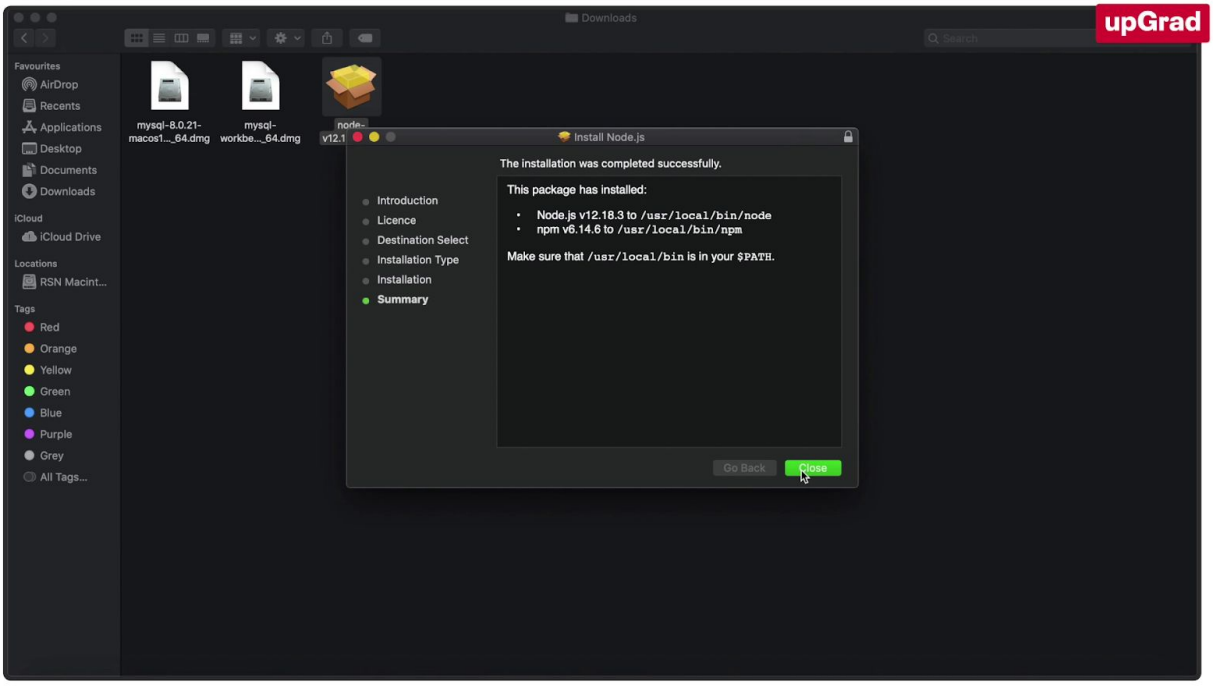
Step 3: Click ‘Continue’.



Step 4: Click ‘Agree’.



Step 5: Click ‘Close’.



Step 6: To confirm that Node.js was installed on your system, run the following command in your command line and check whether you are getting an output similar to the one shown in the following snapshot.

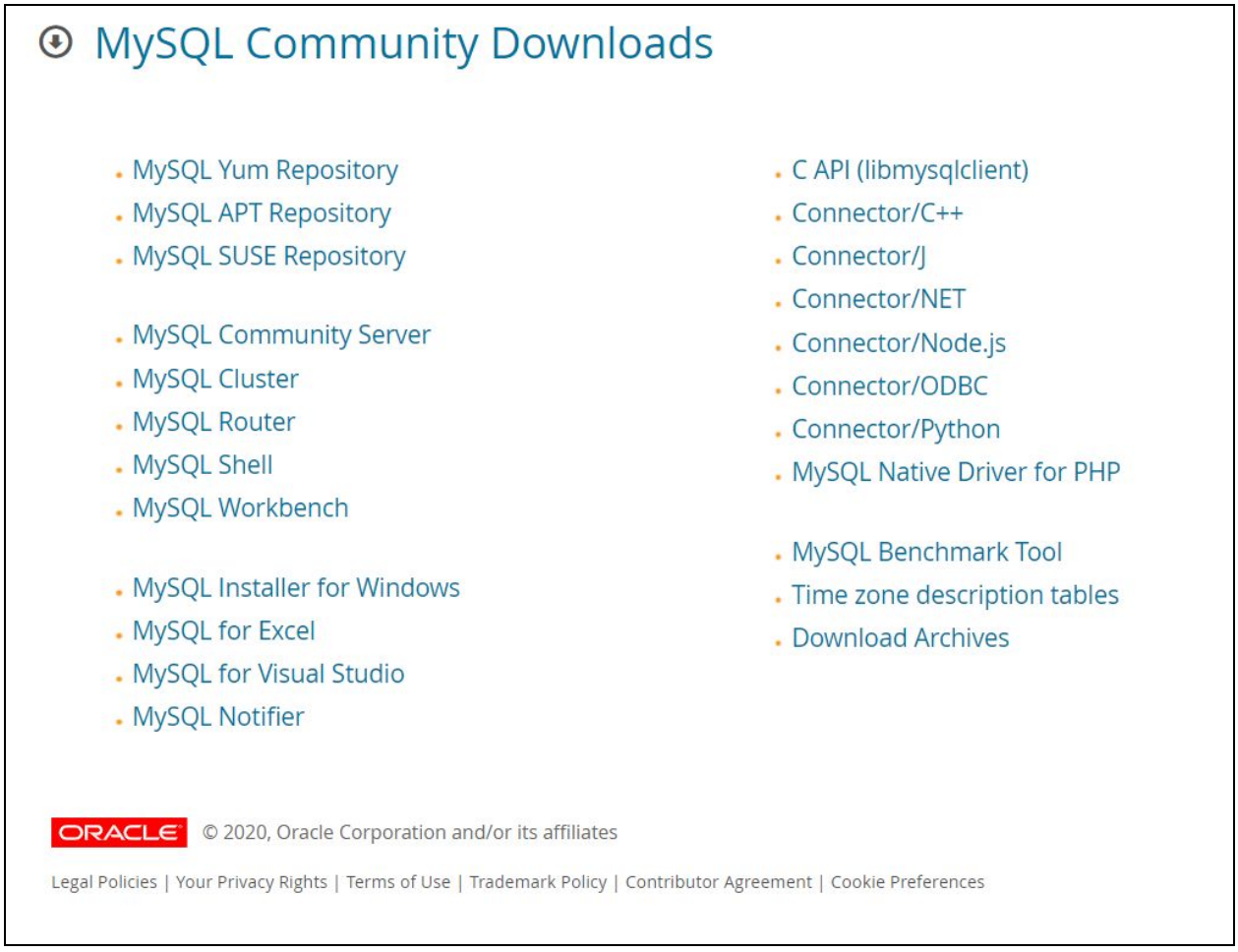
```
node -v
npm -v
```

Windows

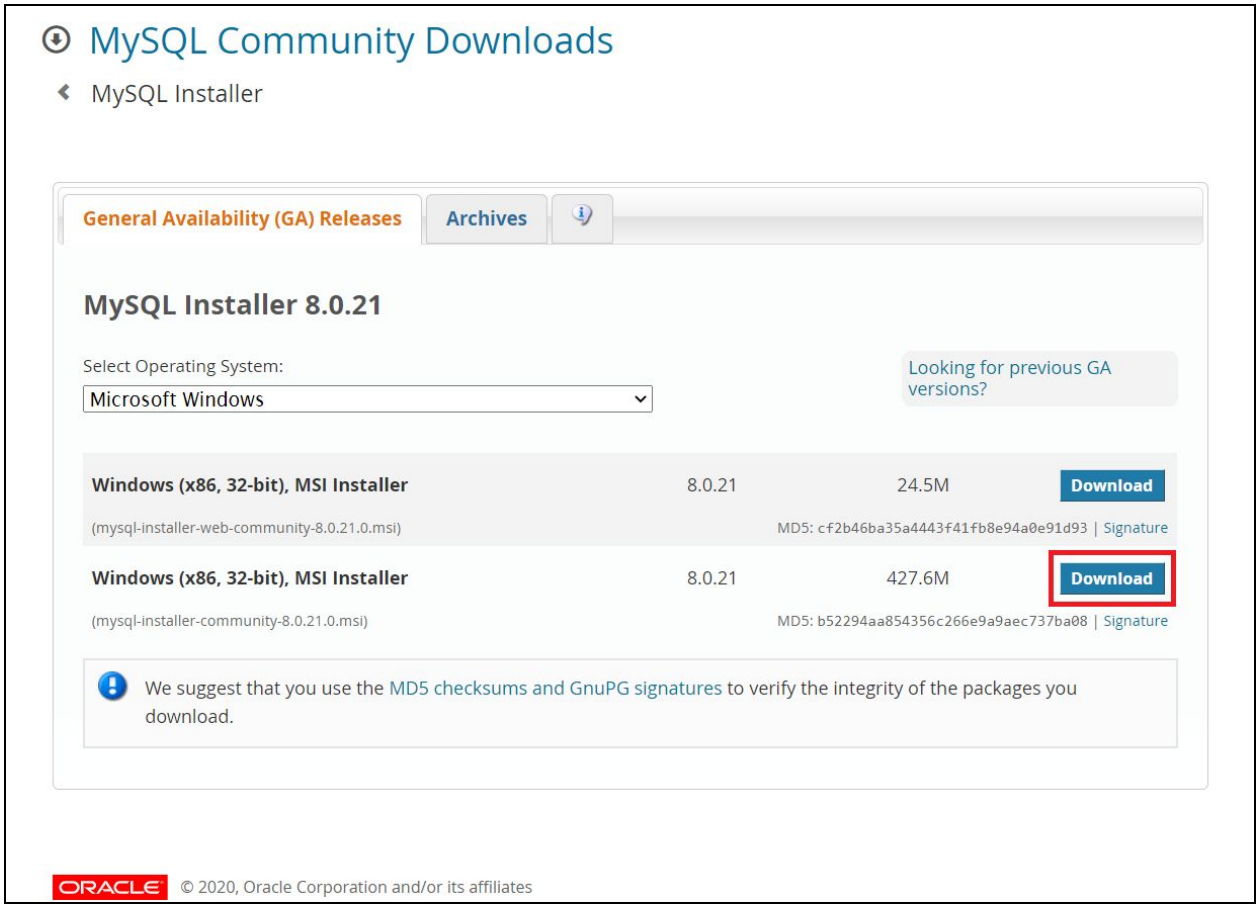
MySQL

Step 1: Go to this link to download the MySQL installer.

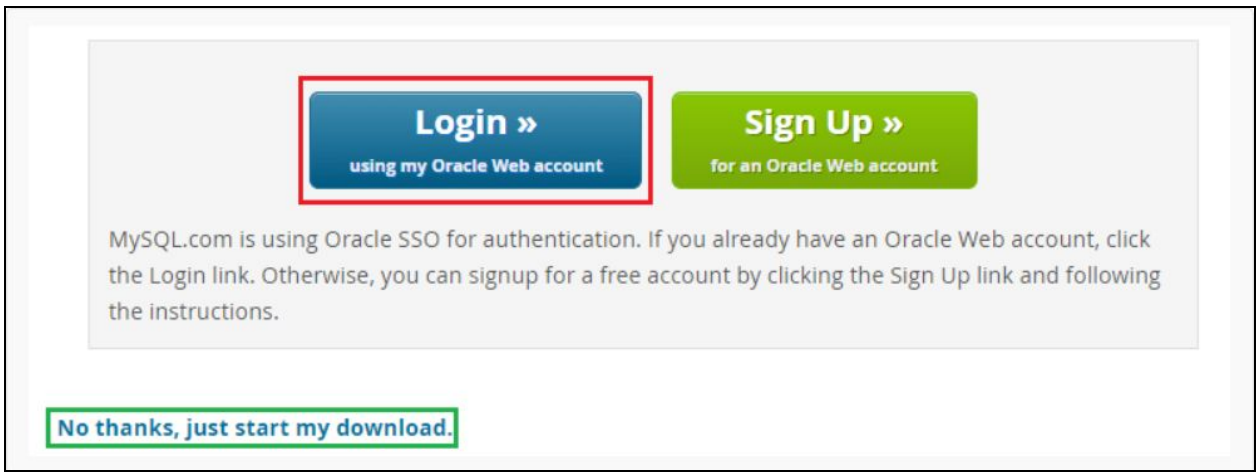
Step 2: Click on ‘MySQL Installer for Windows’.



Step 3: You will see two different installers. One is a web community installer, which comes as a small file and the other is MySQL installer community. Click the ‘Download’ button on the second installer (mysql-installer-community).



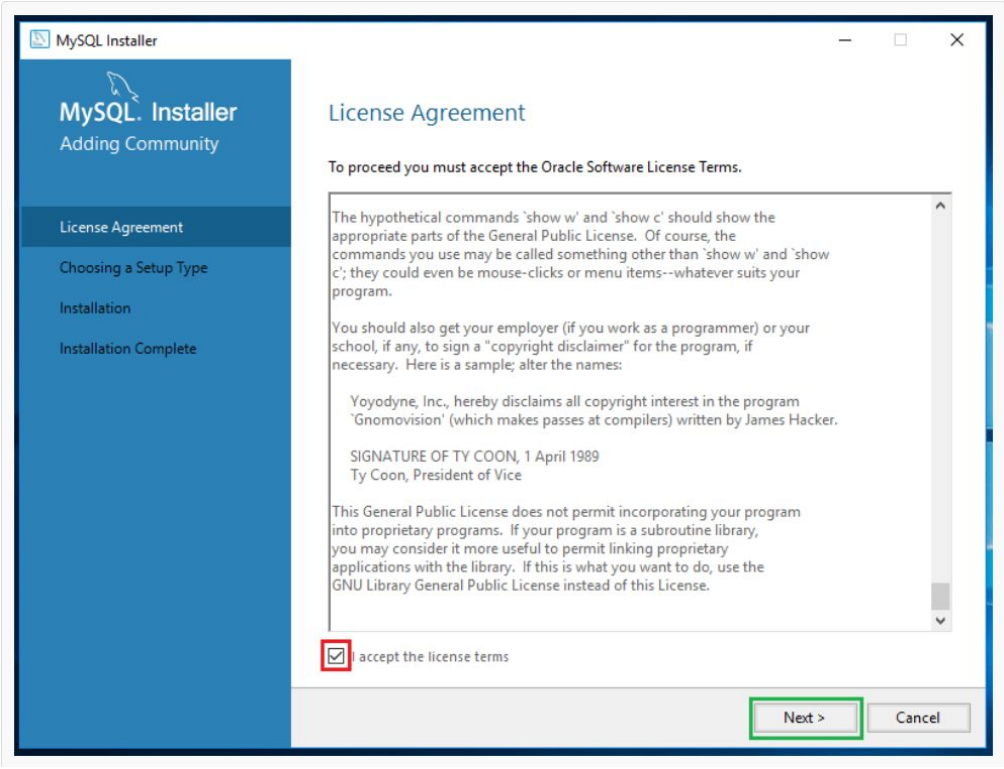
Step 4: It will ask you to log in with your Oracle account. You can either log in or click on ‘No thanks, just start my download’.



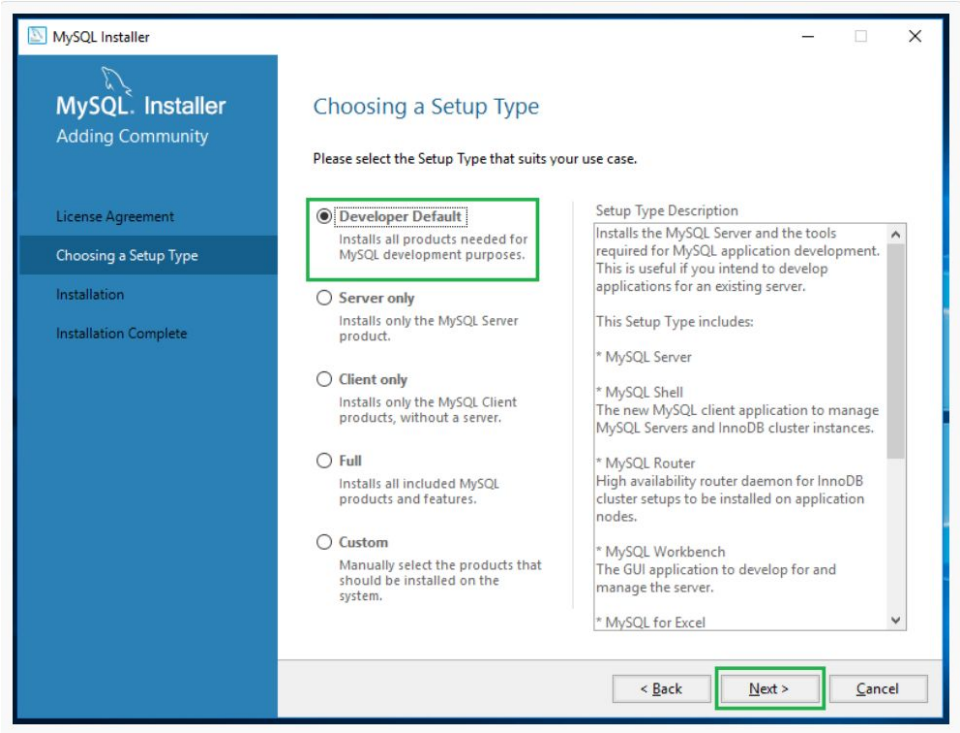
Step 5: Double click on the downloaded .msi file to start the installation.

It may ask for permissions to change your computer settings or firewall confirmation. You can accept them.

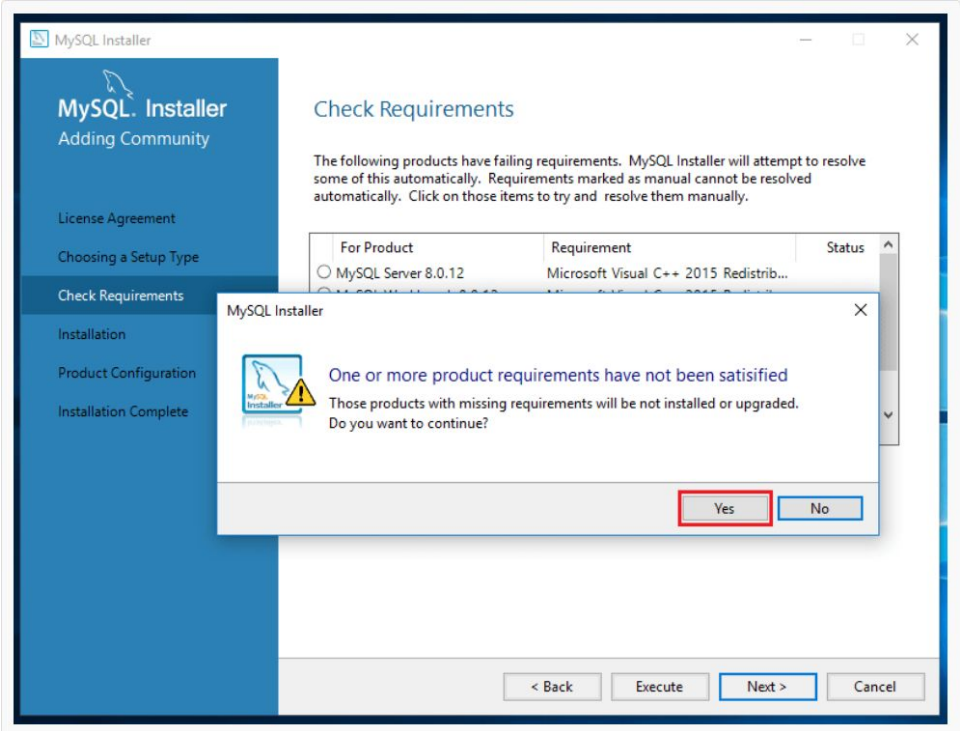
Step 6: Read the license agreement and accept the license terms.



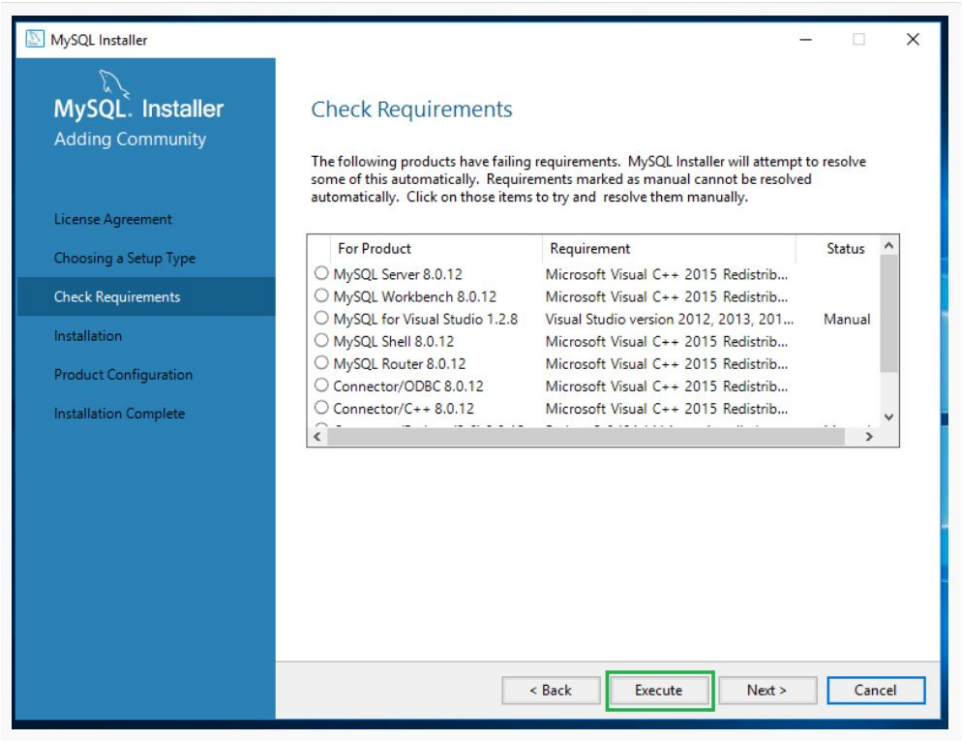
Step 7: Select ‘Developer Default’ and click on ‘Next’.



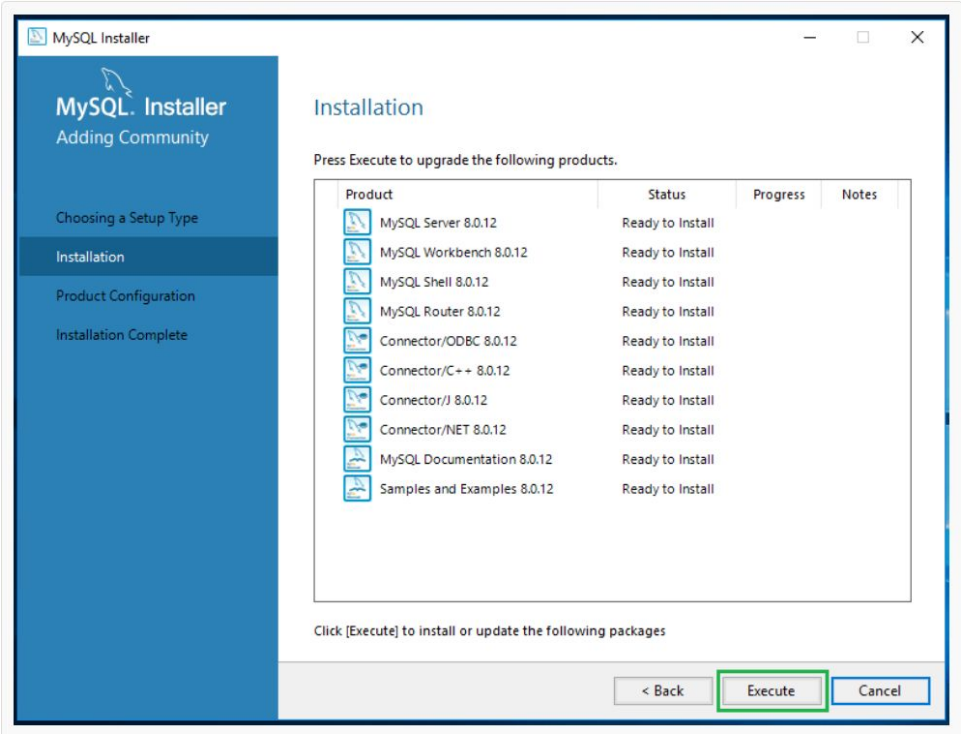
Step 8: You may get a prompt such as ‘One or more product requirements have not been satisfied’. You can simply click on ‘Yes’.



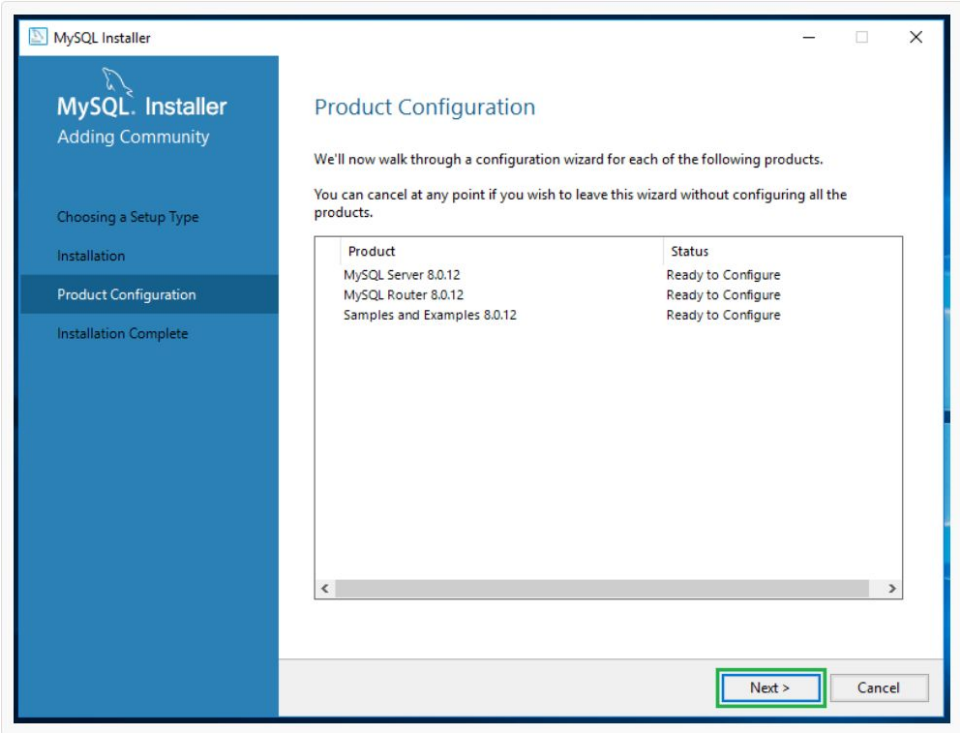
Step 9: Click on ‘Execute’.



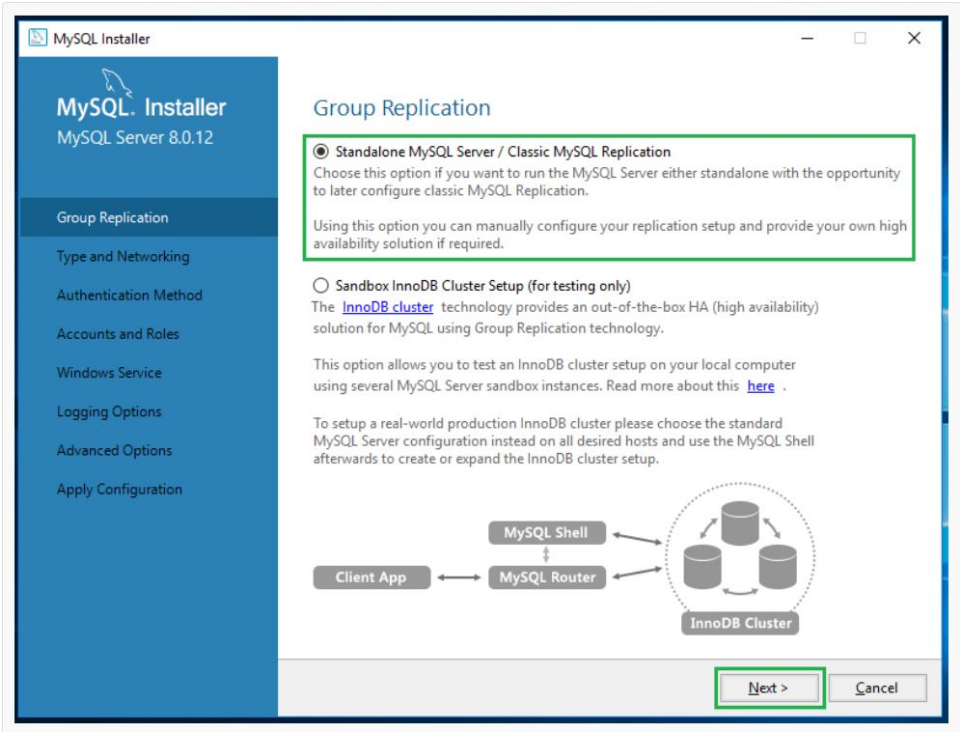
Step 10: Click on ‘Execute’.



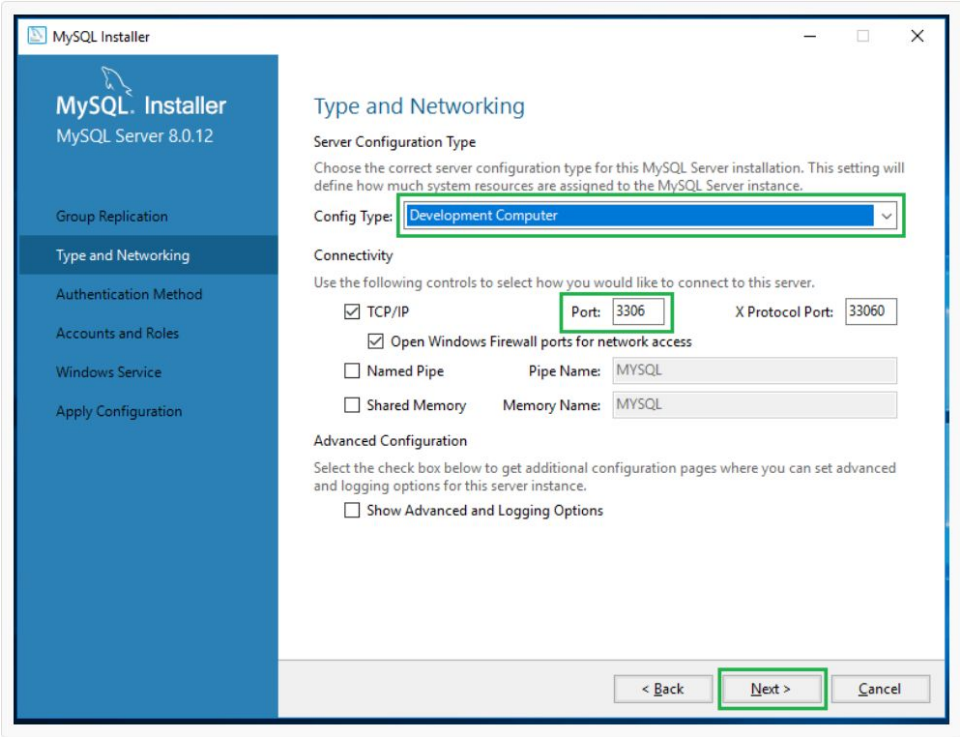
Step 11: Click on ‘Next’.



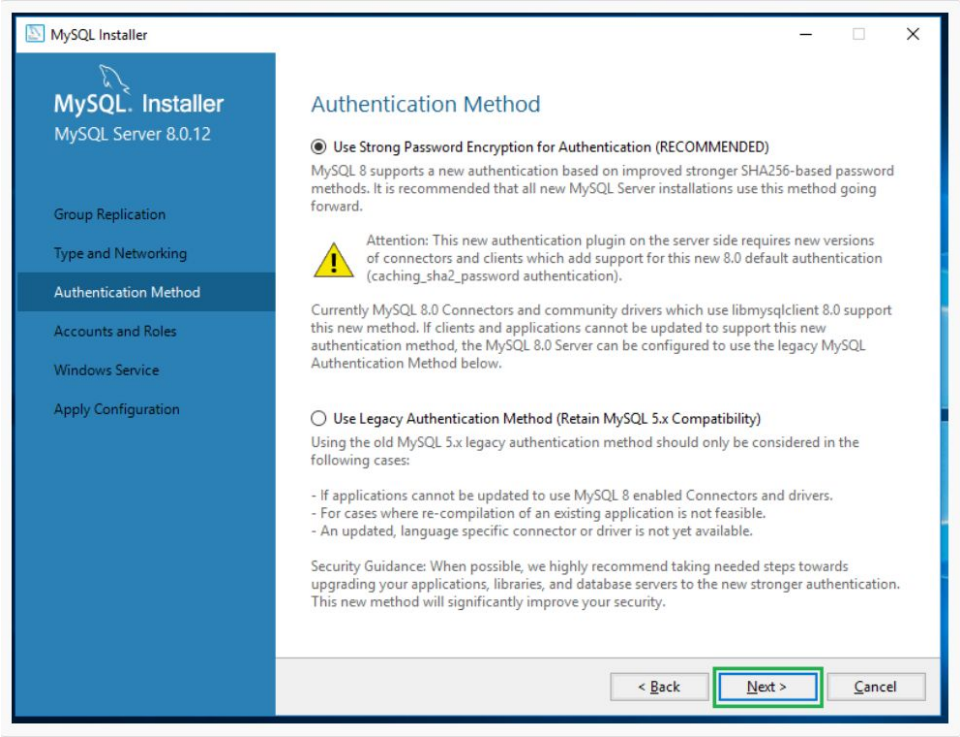
Step 12: Select ‘Standalone MySQL Server / Classic MySQL Replication’ and click ‘Next’.



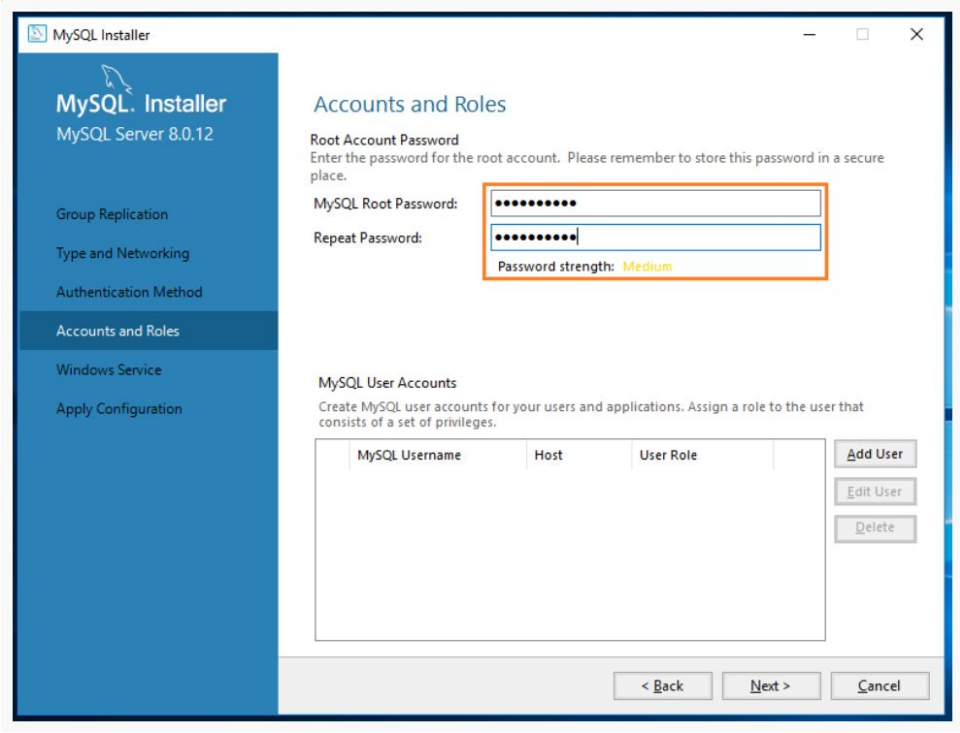
Step 13: Check whether Config Type is ‘Development Computer’ and Port is ‘3306’.Click ‘Next’.



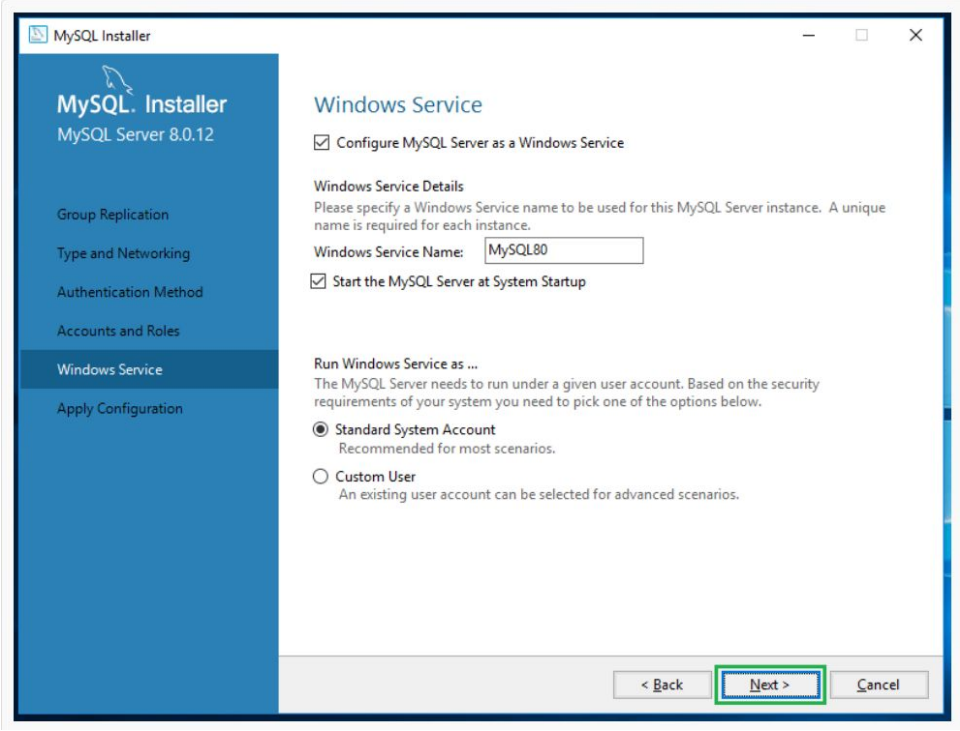
Step 14: Click ‘Next’.



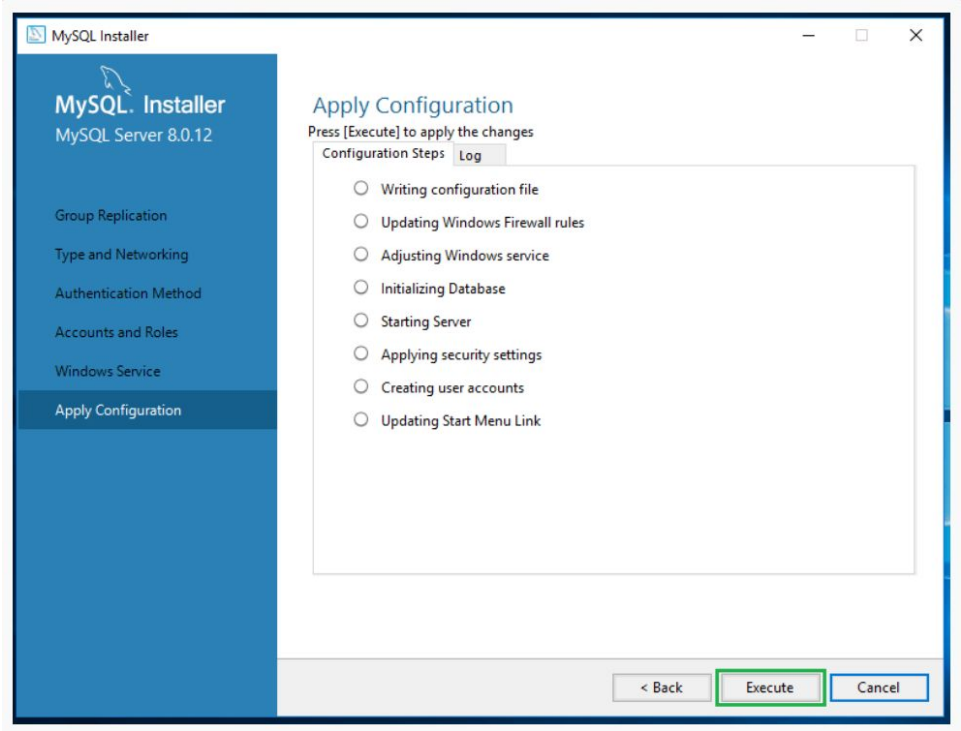
Step 15: Enter a password and remember it, as you will need it later.



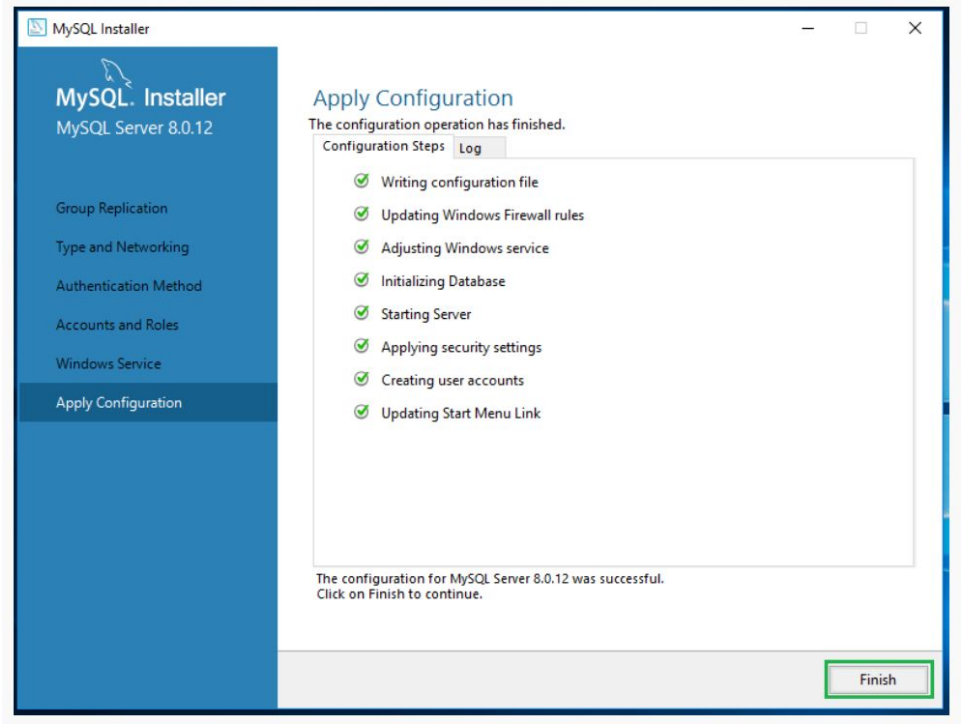
Step 16: Click ‘Next’.



Step 17: Click ‘Execute’.



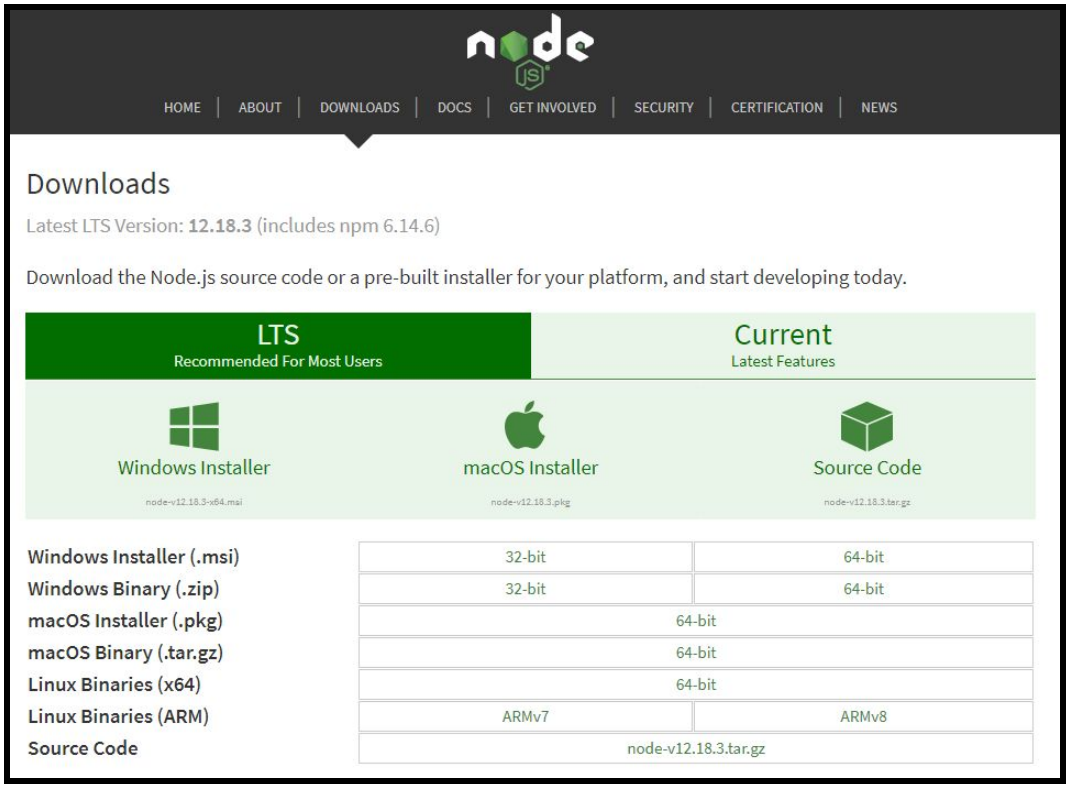
Step 18: Click ‘Finish’



Node.js

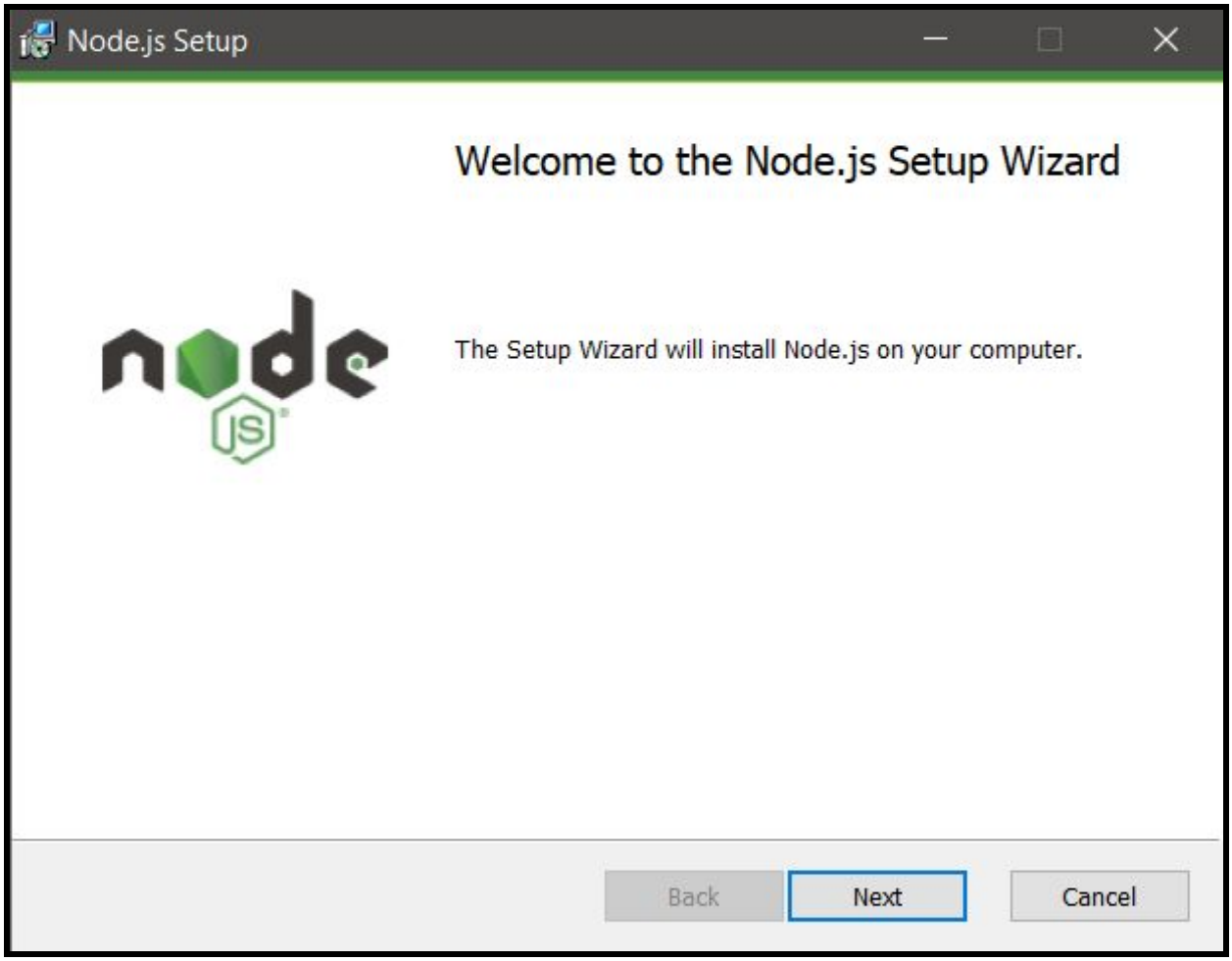
Step 1: Go to this link to download the Node.js installer.

Step 2: Click on the ‘Windows Installer’ option.



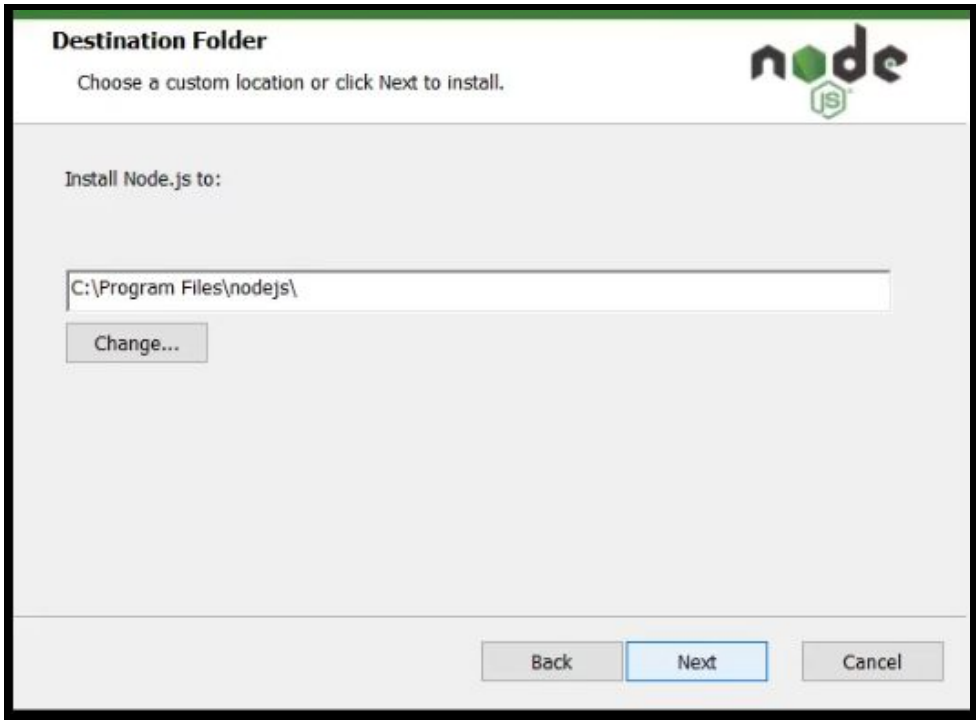
Step 3: Double click on the downloaded .msi file to start the installation.

Step 4: Click ‘Next’.

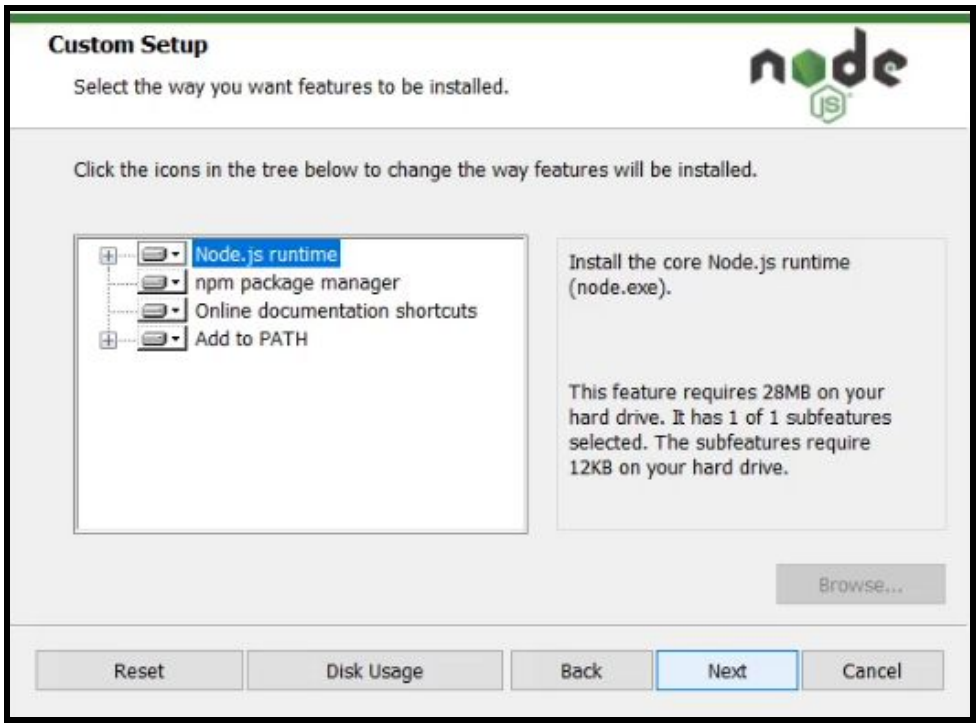


Step 5: Accept the terms of the License Agreement and click ‘Next’.

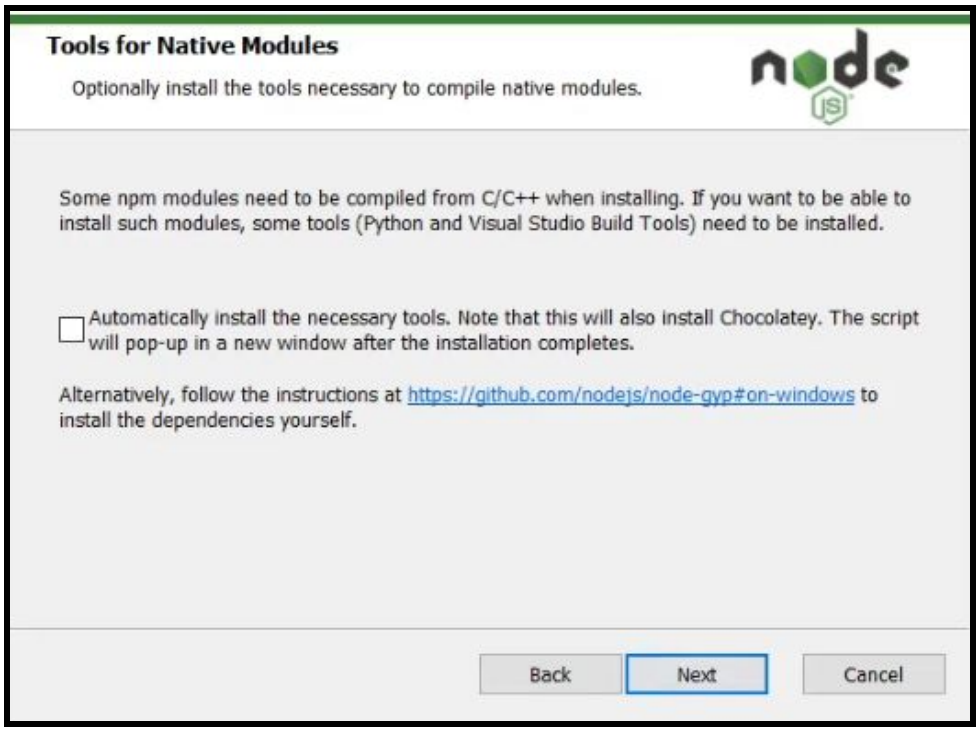
Step 6: Click ‘Next’.



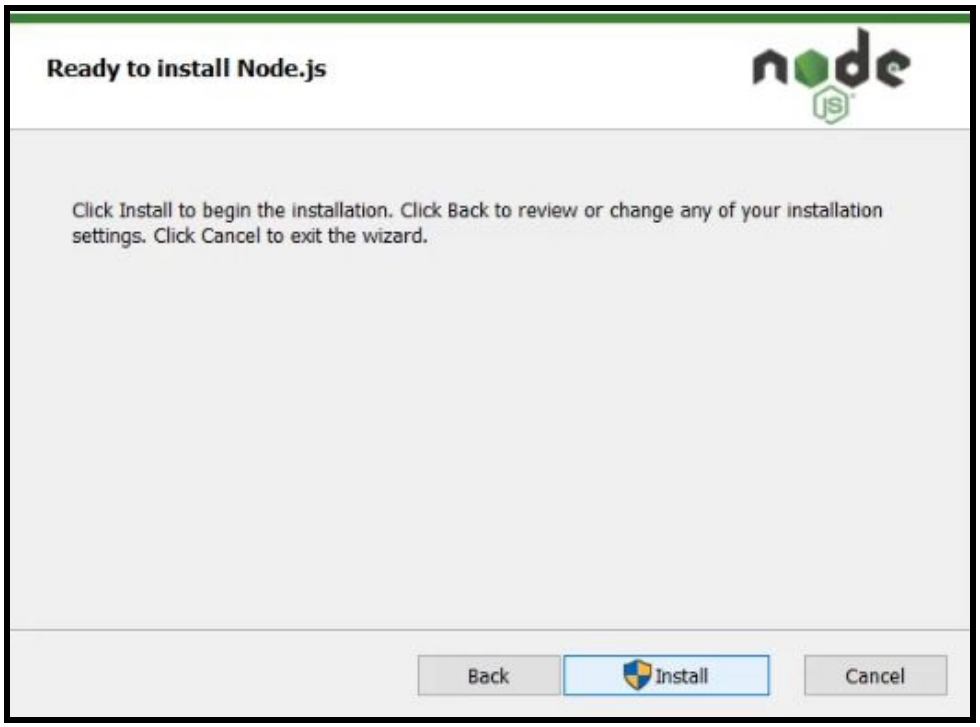
Step 7: Click ‘Next’.



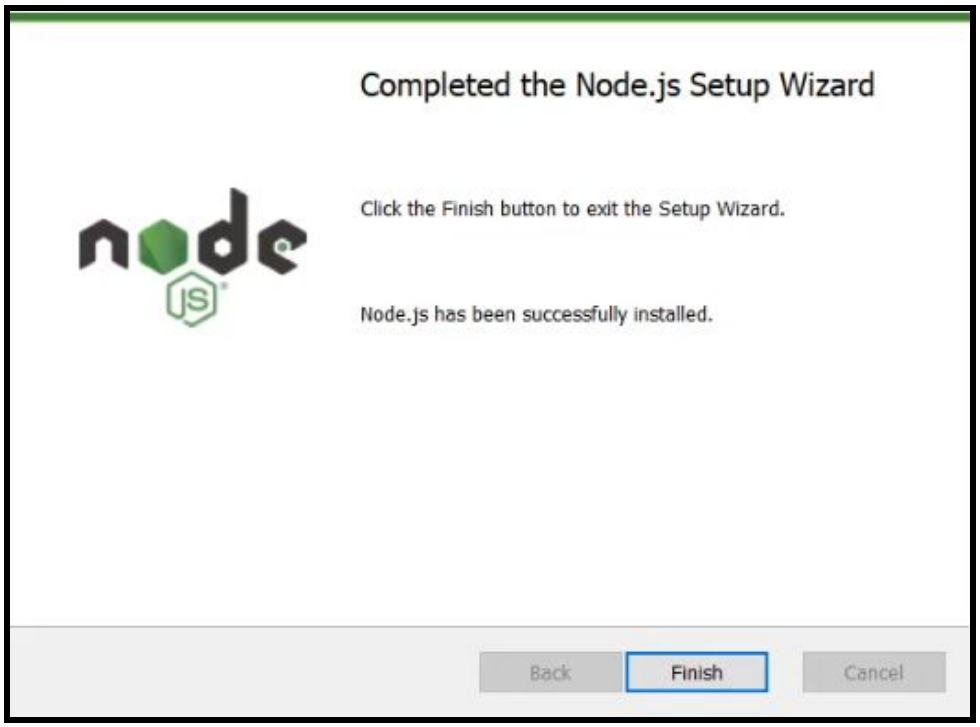
Step 8: Click ‘Next’.



Step 9: Click ‘Install’ (This step will require Administrator privileges.).



Step 10: Click ‘Finish’.



To confirm that Node.js was installed fully on your PC, you can type the following command in your command prompt and check whether you are getting the version number of Node.js displayed as output.

```
node -v
```

Linux (Ubuntu)

MySQL

Using root privileges, log in to your Ubuntu 18.04 instance and follow the steps given below.

Step 1: Download the MySQL repository package.
Download the repository using wget or curl command-line tool.

```
curl -OL https://dev.mysql.com/get/mysql-apt-config_0.8.13-1_all.deb
```

Step 2: Install the MySQL repository package.
Next, using the dpkg package tool, install the MySQL repository package as shown below.

```
dpkg -i mysql-apt-config_0.8.10-1_all.deb
```

After running the command given above, you will get a display prompt that will give you a selection of MySQL instances to choose from. Scroll down and select the last option ‘Ok’.

Next, update the Ubuntu system.

```
sudo apt update
```

Step 3: Install MySQL server and client (Option 2).
Next, run the command given below to install MySQL server instance and client, which is used for remotely logging in to MySQL server.

```
sudo apt install mysql-server
```

You will be prompted to provide a MySQL root password to access the database. Type the password and hit 'Ok'.

Next, you will be required to choose the default authentication plugin. Select the first option and hit 'Enter'.

To confirm that you have successfully installed MySQL 8.0 server, run the following command.

```
mysql -V
```

To display more information about your database server such as the server version and uptime, run the following command.

```
mysqladmin -u root -p version
```

Node.js

Refresh your local package index by typing the following command.

```
sudo apt update
```

Install Node.js from the repositories using the following command.

```
sudo apt install nodejs
```

You will also want to install NPM, which is the Node.js package manager. You can do so by typing the following command.

```
sudo apt install npm
```

To check which version of Node.js you have installed, you can use the following command.

```
nodejs -v
```

To check which version of NPM you have installed, you can use the following command.

```
npm -v
```