Setup of HowToGet Application

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Annotation

HowToGet is the application that helps people to find appropriate way to travel from one place to another. There is a functional of booking for suitable transport. There are two ways of transport options presented in the app, bus and plane. To use it you can easily use just come through simple registration procedure, or simply log in if you already have an account in the app system.

To use it for the first time you need to make a little prep work. Relational Database Management System (RDBMS) that has been used in the project is MySQL. If you already have, simply go to MySQL scripts running section. If you don not have come thourgh the simple MySQL installation procedure.

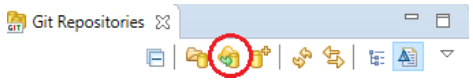
Then finally you will be able run the project.

Downloading the project

You can find project here. To download it and use, we will use IDE (Eclipse IDE in this certain case).

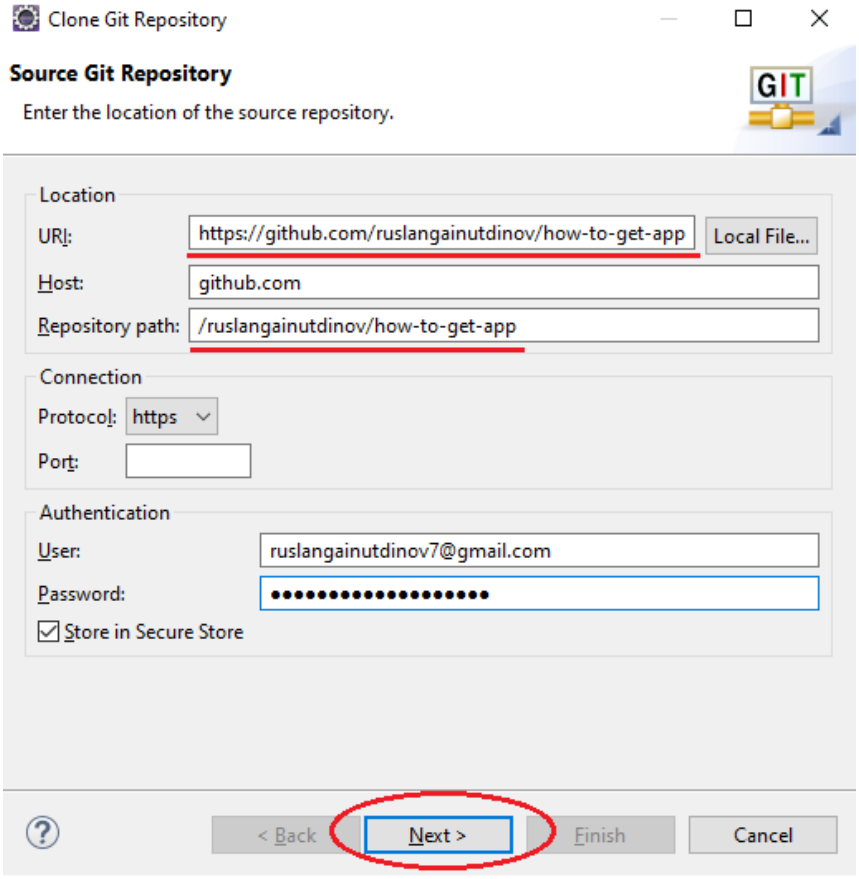
Copy repository URL from your browser into the buffer on your PC(**Ctrl+C**).

In “Git” perspective click button **Clone a Git Repository and add the clone to this view.**

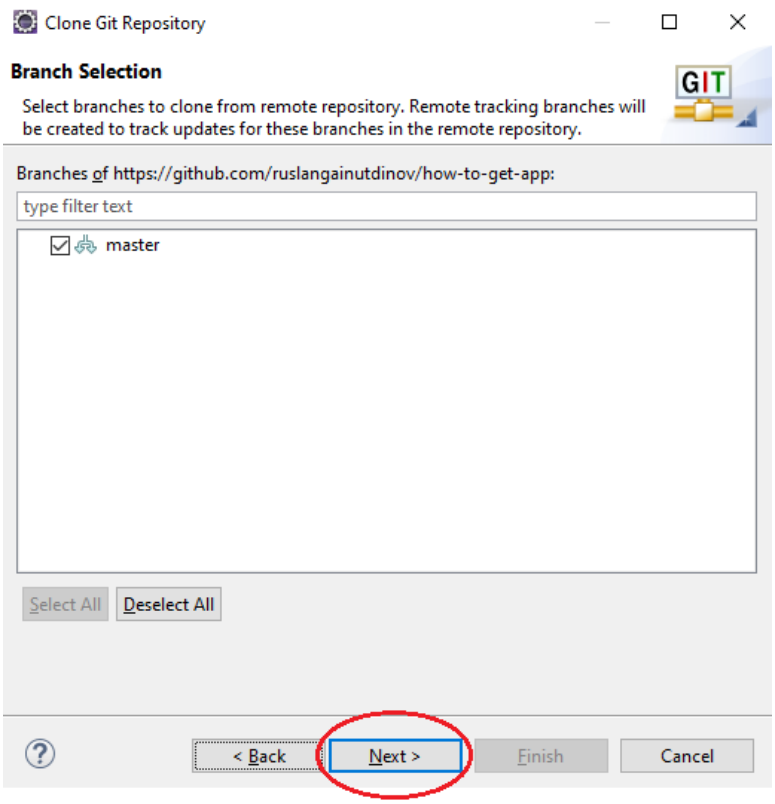


Now window that is show below will appear. In new versions of Eclipse, if you already copied link to github repository, then all fields in this window will be inserted automatically. If fields are empty, insert copied link to URI. Or simply filled form with data from the picture below.

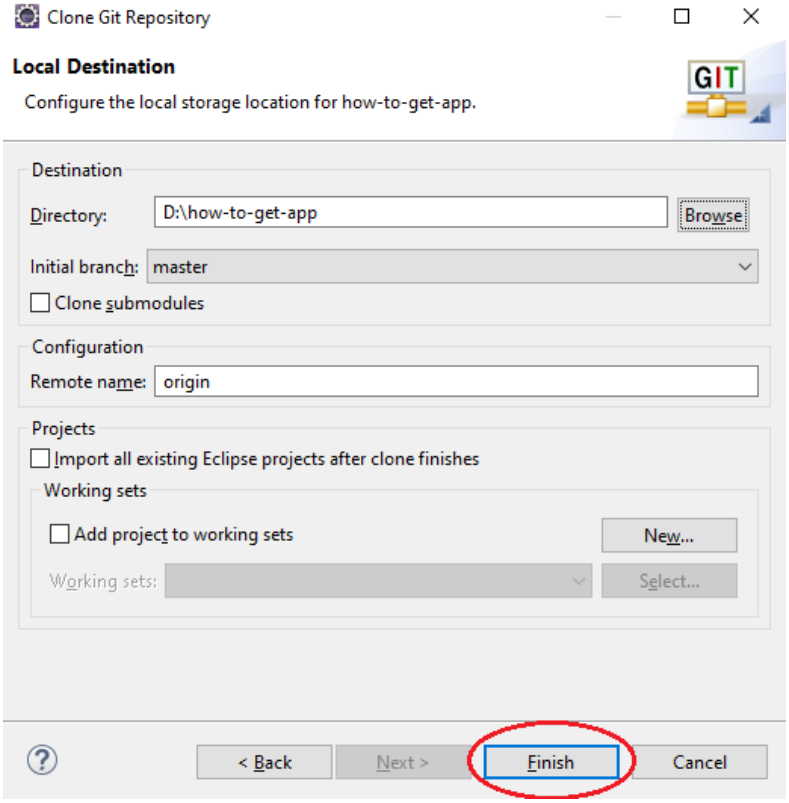
NOTE! For *user* and *password* values, use your own credentials of Github repository.



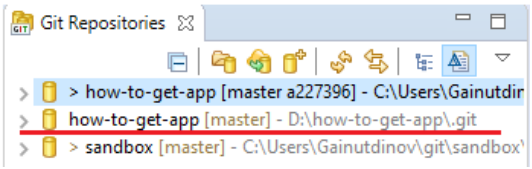
When you complete filling the form, click **Next** button, if you did everything correct **Branch Selection** window will appear on your screen. Example of this screen is shown below.



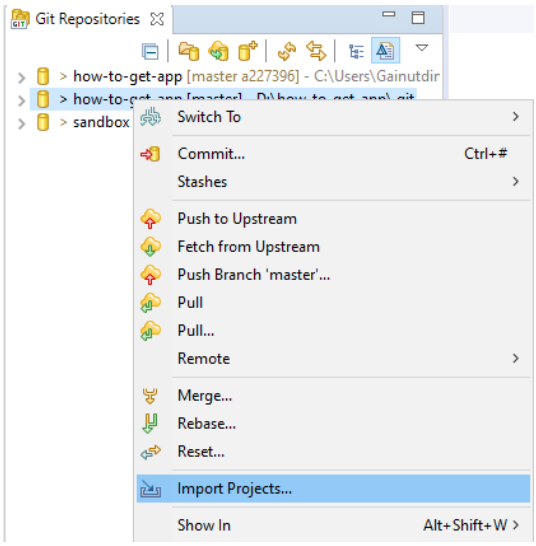
On this screen click **Next** button. Change your Local Destination, if it is necessary. To finish this procedure click Finish button.



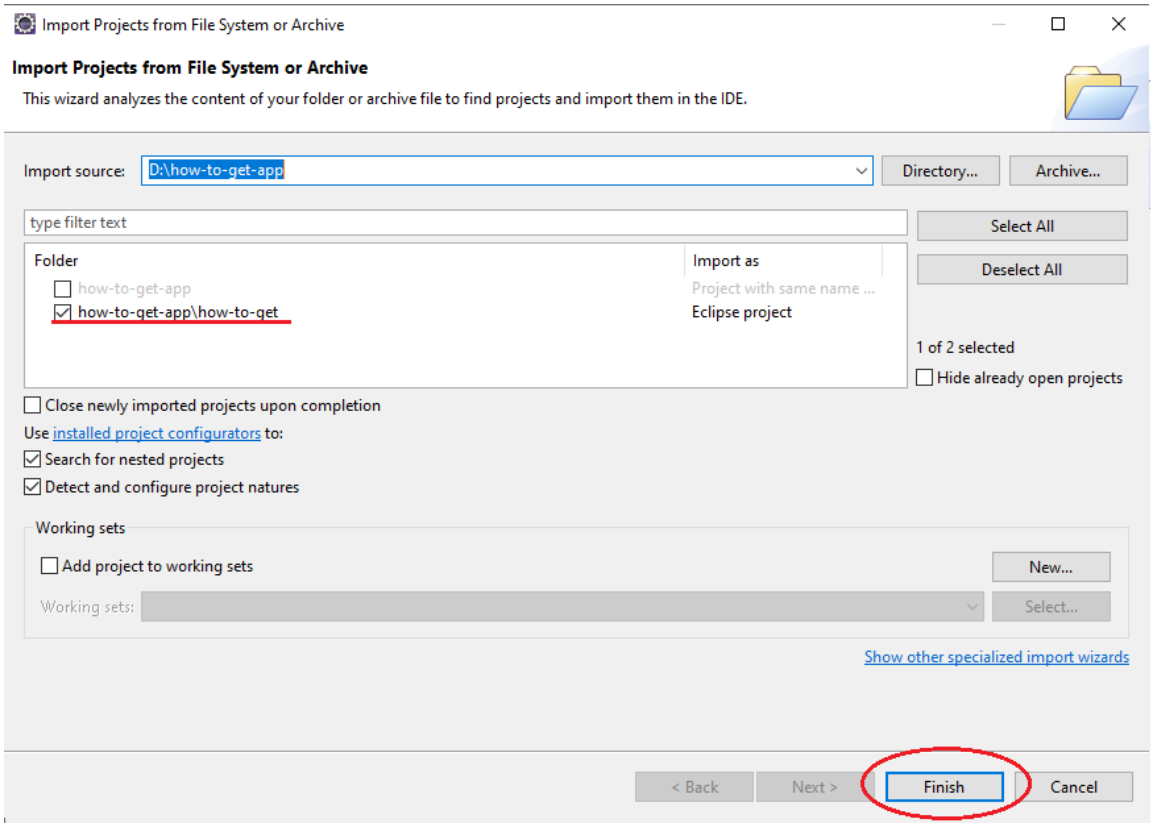
Now you can see new Repository in Git Repositories Window.



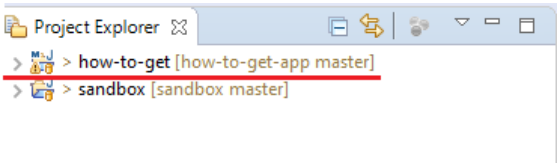
To import source code to your IDE**, Right Click** ->**Import Projects**



Make sure that Eclipse project't item has been selected. If it is selected, click the **Finish** button

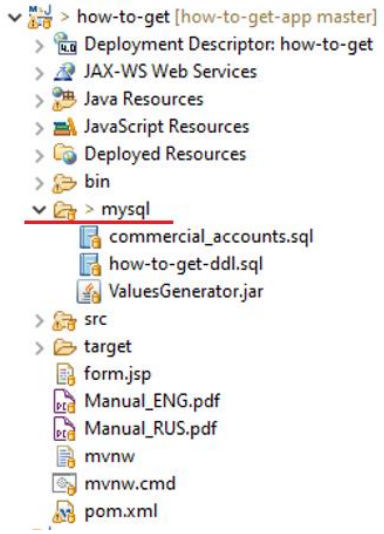


Now you can find imported project in Project Explorer.



ATTENTION! Do not run the project until the database configuration and settings will be set up. The results in this case may be different from what you expected.

To set up database and its configuration you will need MySQL, with MySQL Workbench. In case you already have MySQL on you PC, you can skip next chapter, in which MySQL installation instruction provided. You can go directly to **Database settings** chapter. In case you don't have MySQL, please follow along with next chapter with detailed instruction of downloading & installation of MySQL

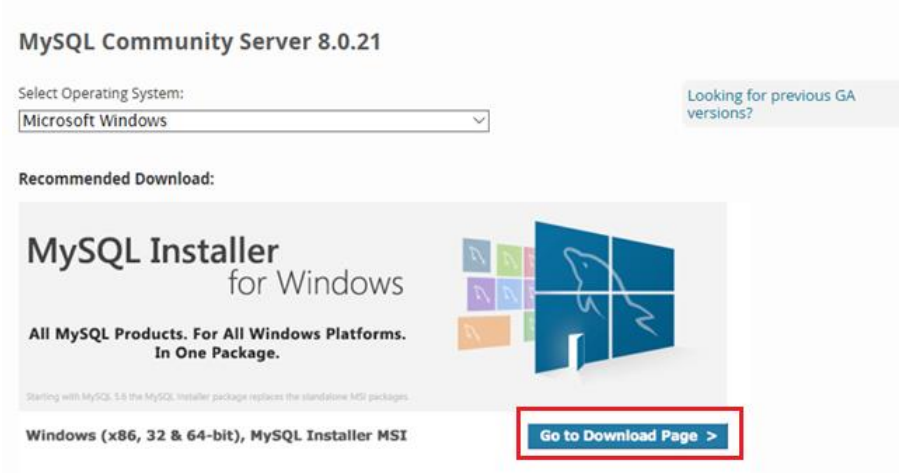


MySQL downloading & installation

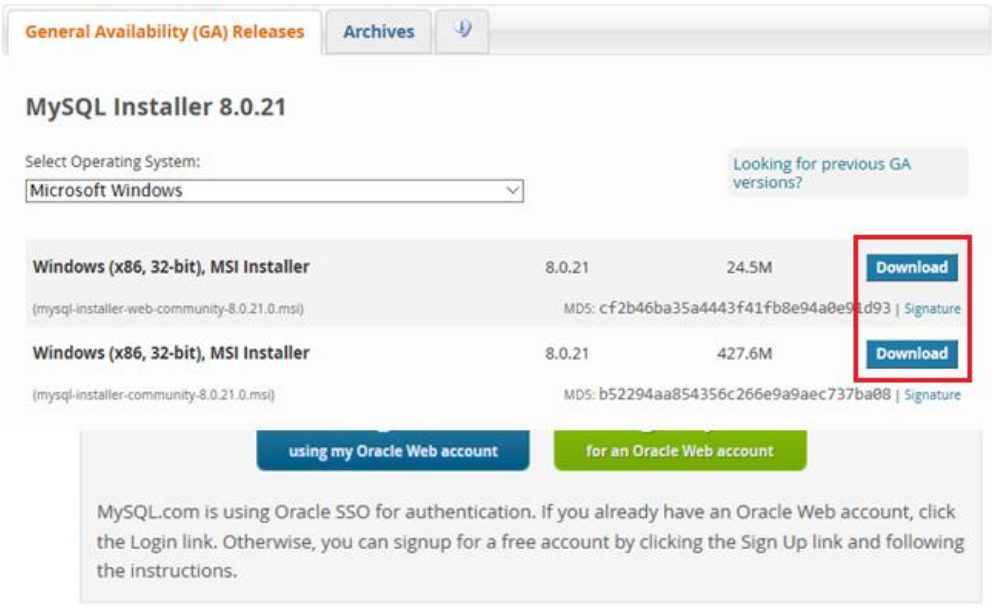
To set up MySQL, go to [MySQL download official page](), and select *Operating System* that installed on your PC.

It is recommended to download **MySQL Installer**, because it is considered as best practice approach.

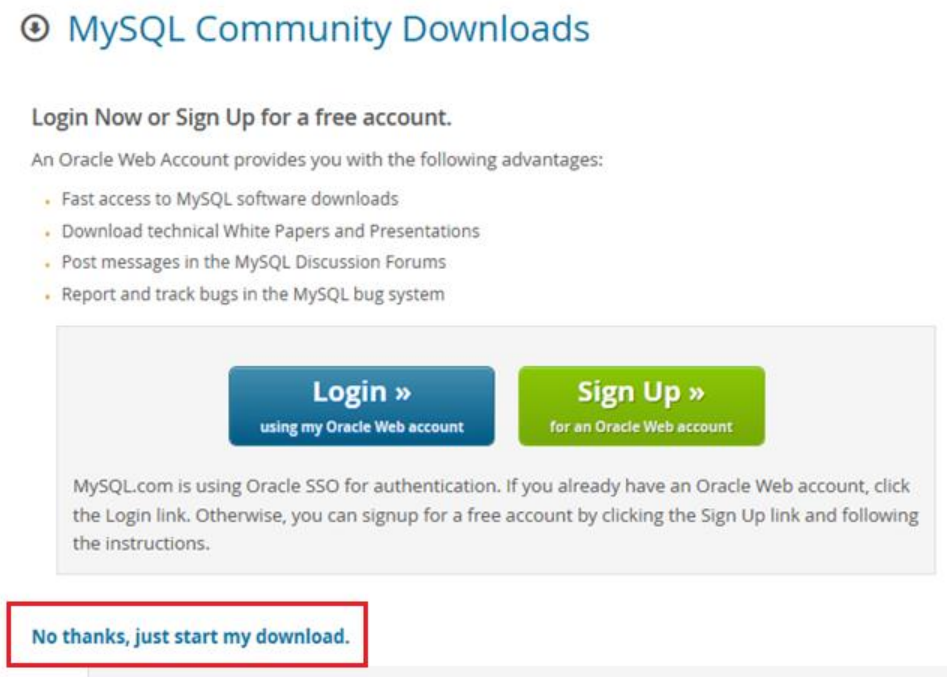
In order to choose this type of MySQL installation, click the **Go to Download Page** button.



On the next page pick one of 2 possible options, where 1st is web installation with downloading during installation process, and 2nd is full Installer without downloading extra files during installation process.

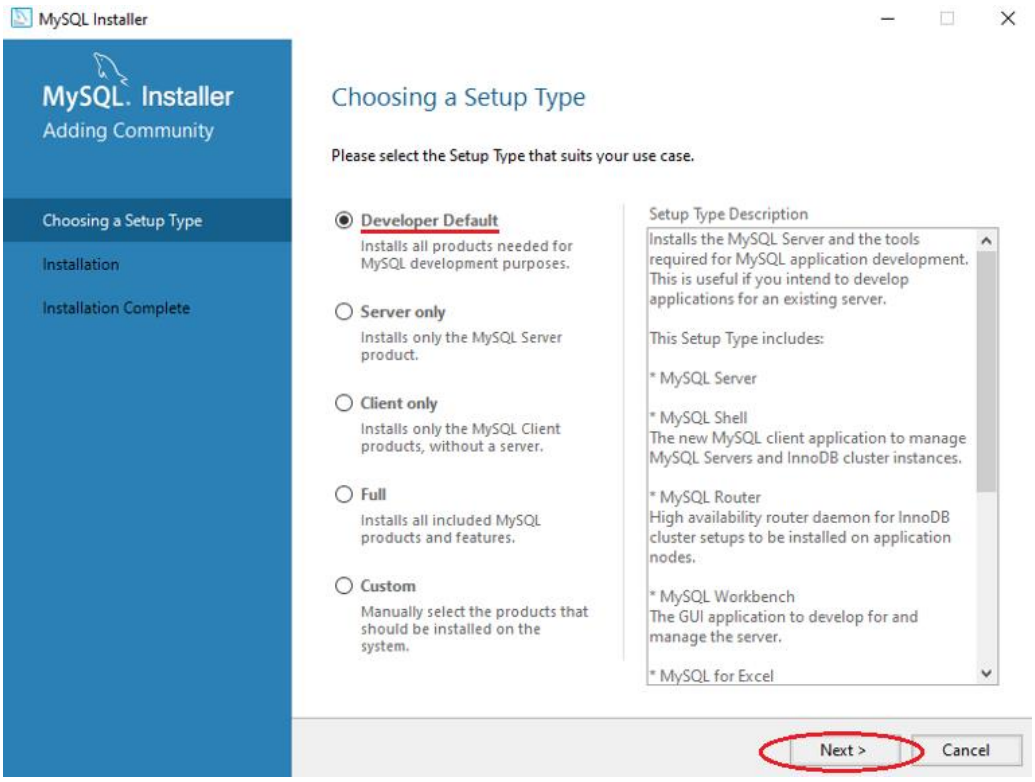


When you picked the way you want to install it, the below window will be shown, to start downloading click **No thanks, just start my download** link.

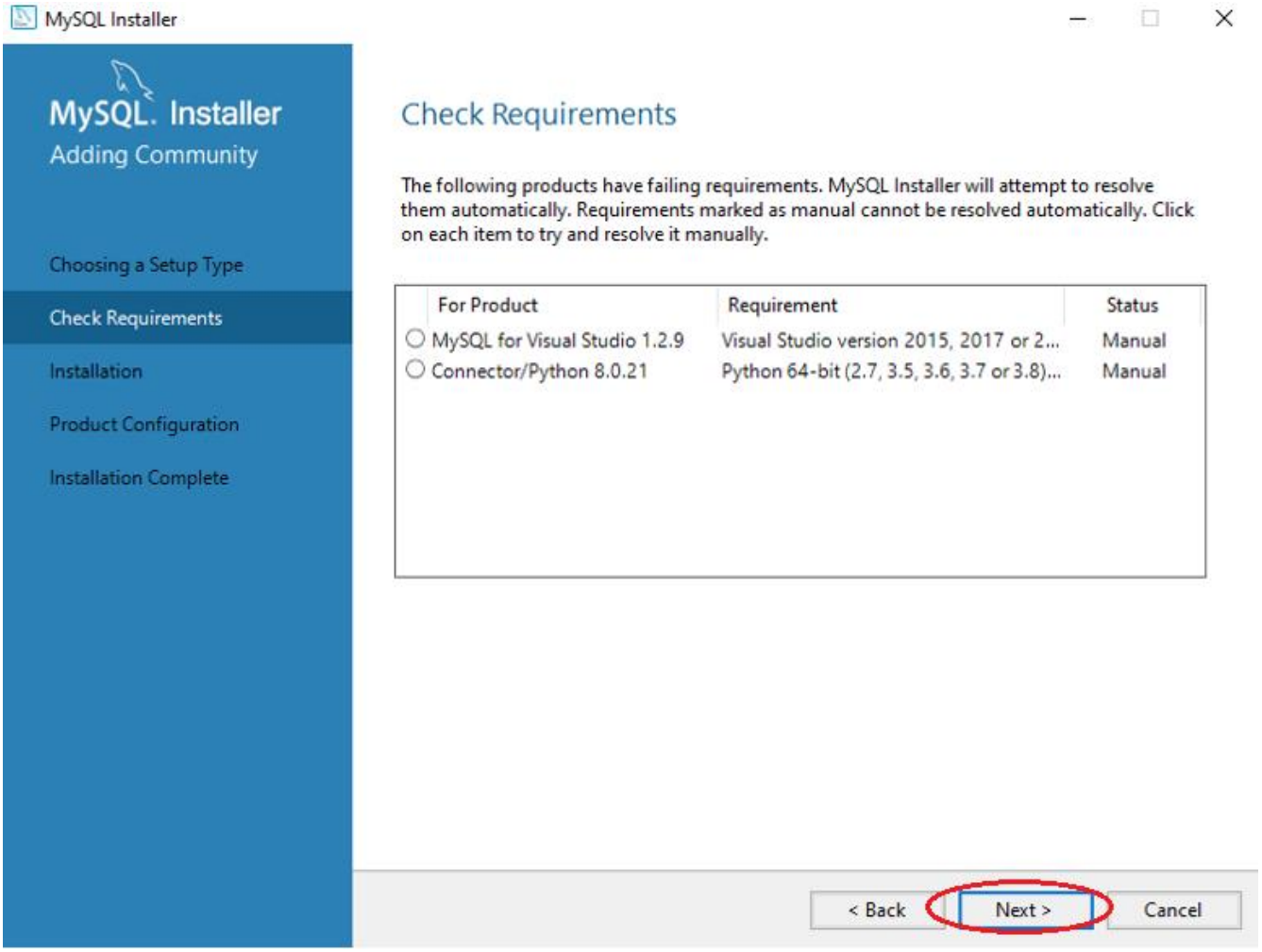


When downloading is completed, simply execute the file that has been downloaded. Now you can come through simple installation procedure, by running this file.

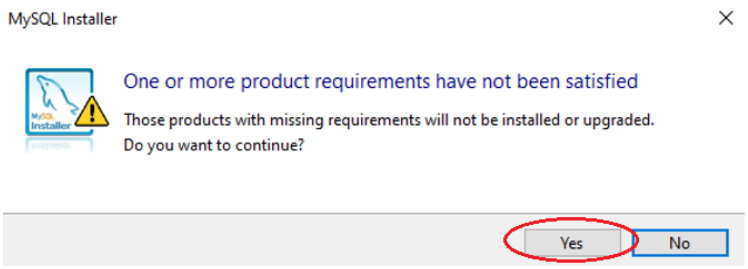
Further execute downloaded file. The window that is shown below will appear on your screen. There you have to choose Setup Type, and **Developer Default** is the most suitable solution.



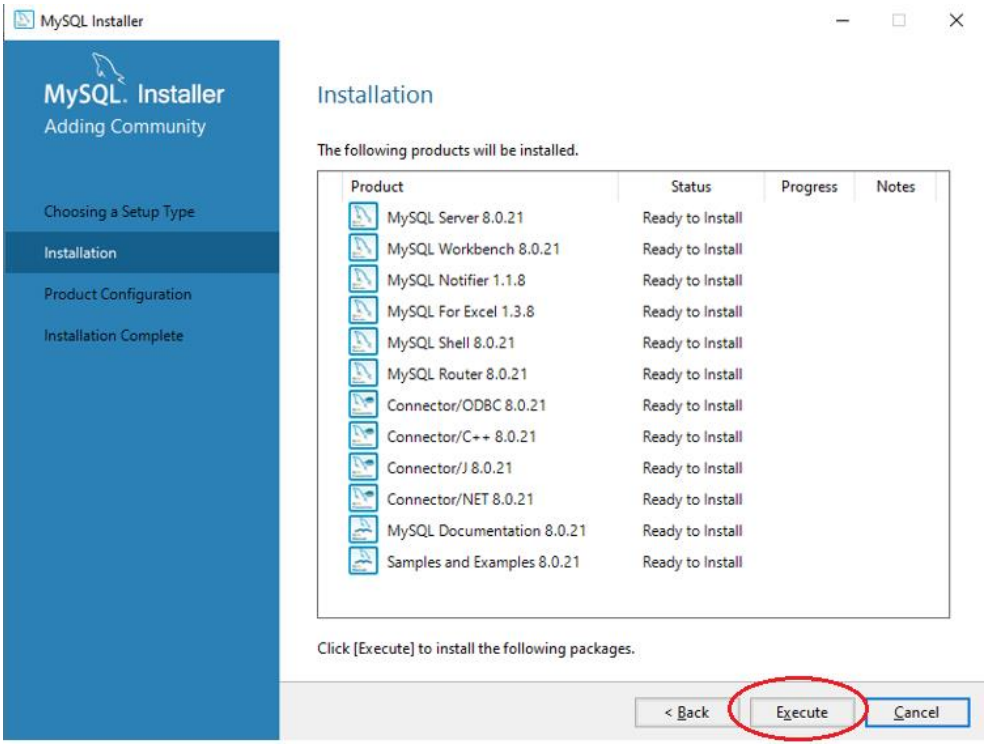
Requirements that are actually not important and not used in the project could be skipped.



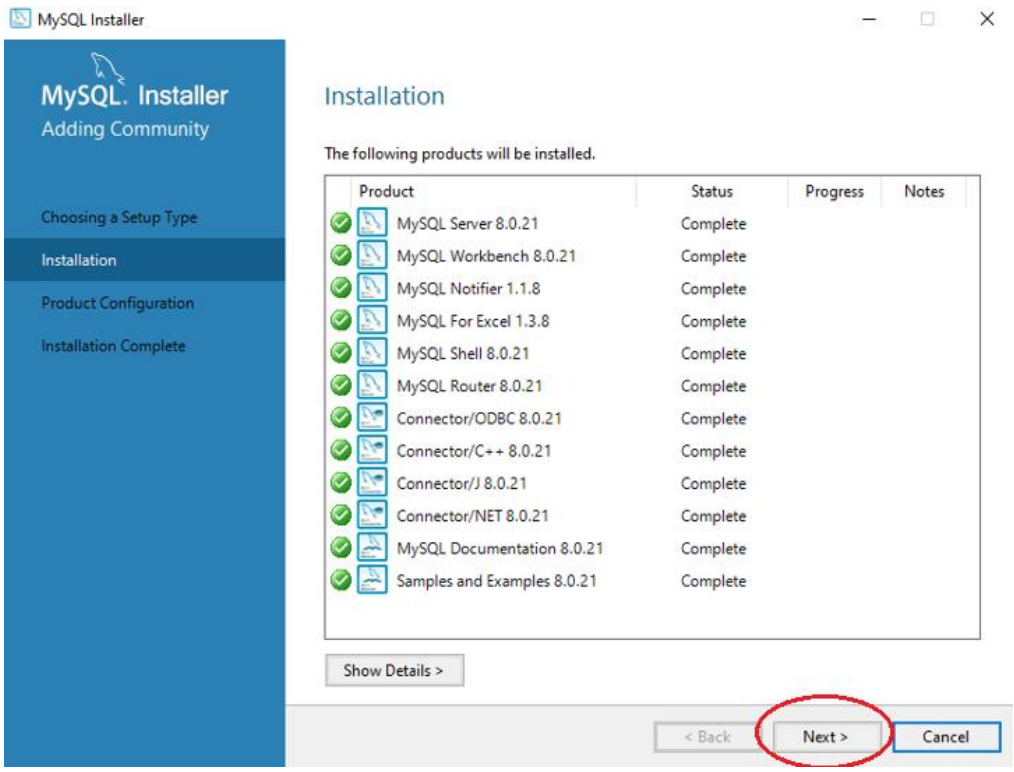
To skip downloading required products click **Next** and **Yes** to continue.



Then click **Execute** and installation will be started immediately.



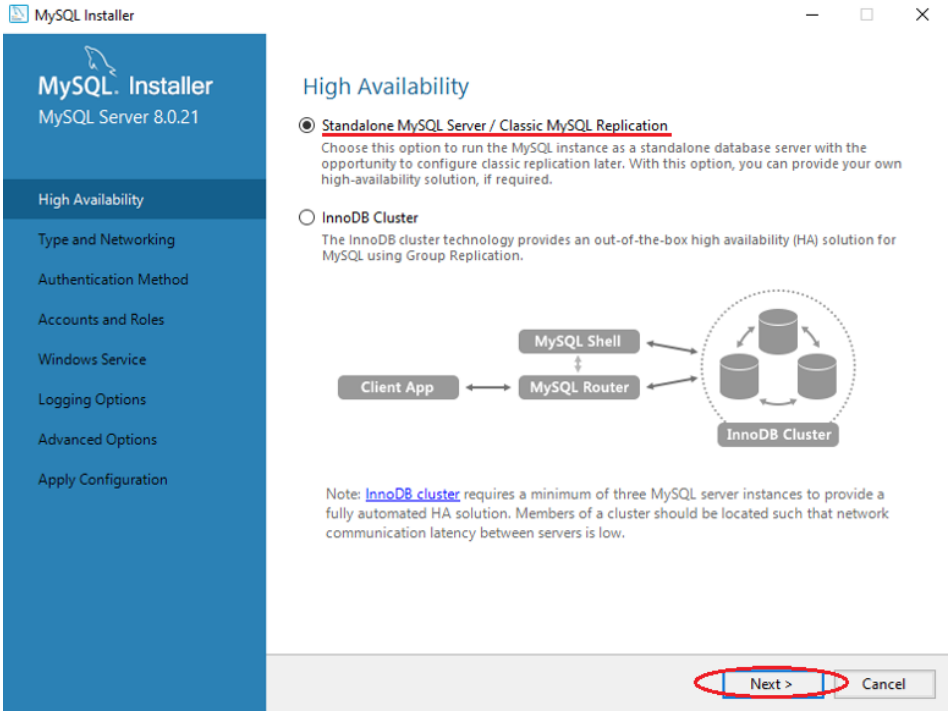
When installation is completed, click **Next** to start configuration of the product.



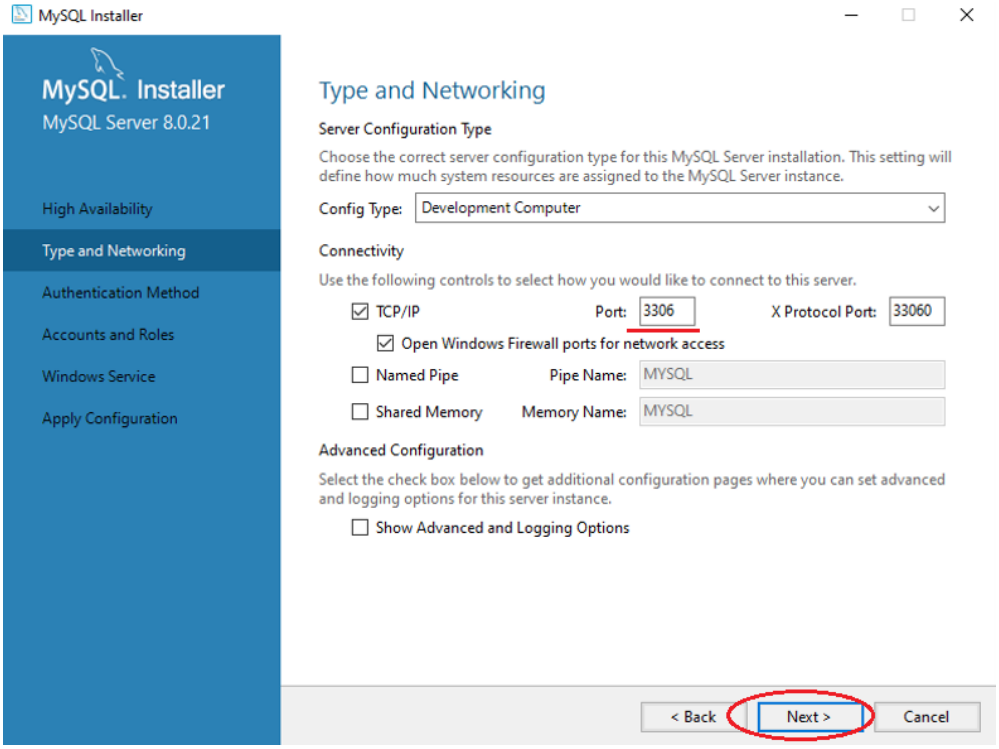
On this stage *installation* is over, when clicking **Next** the **Product Configuration** stage is started.

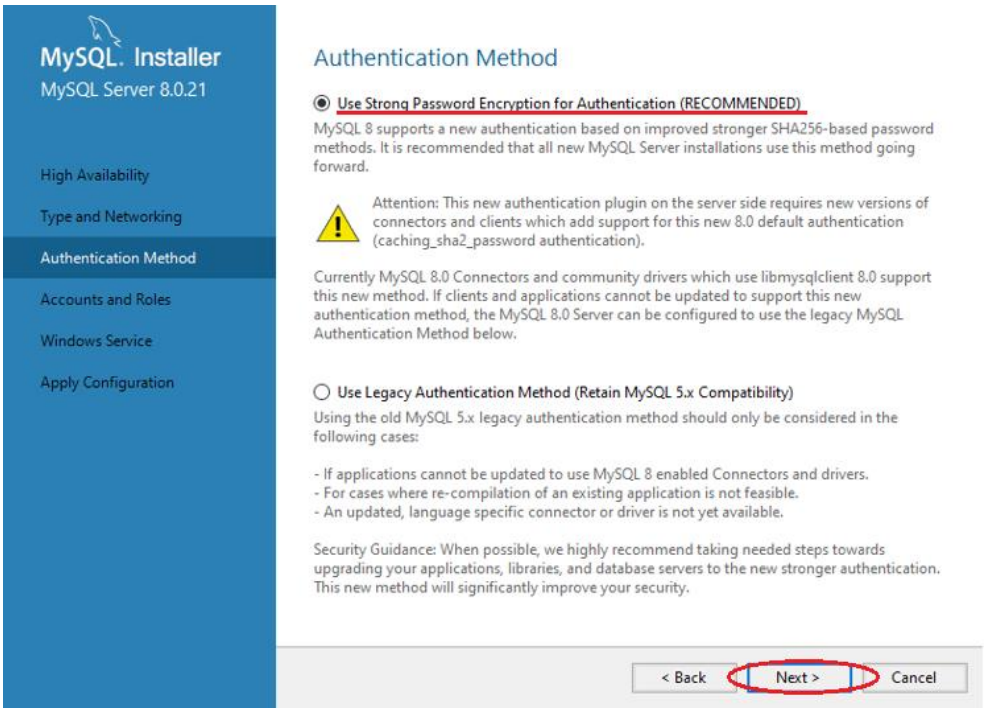
Note, it is recommended to set up configuration according to this manual, however you can set up settings that are different from those that provided in this manual. In this case results are unpredictable.

On first window, that appears pick ***Standalone MySQL Server***, then click **Next** button.



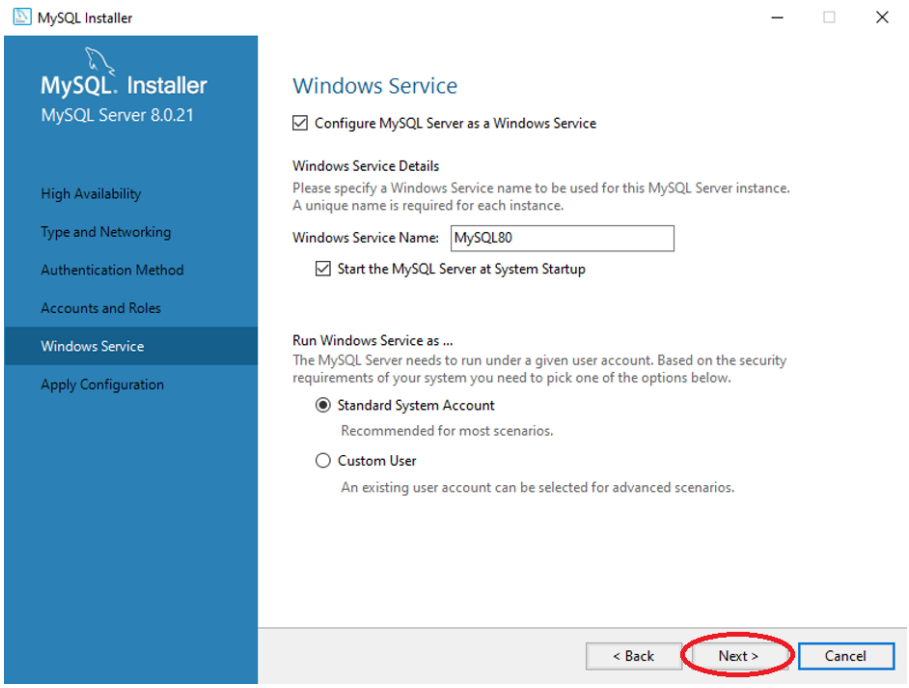
When picking **Type and Networking**, make sure that port has chosen as **3306**, and all options are selected as on the picture below. Now you can click **Next** button.



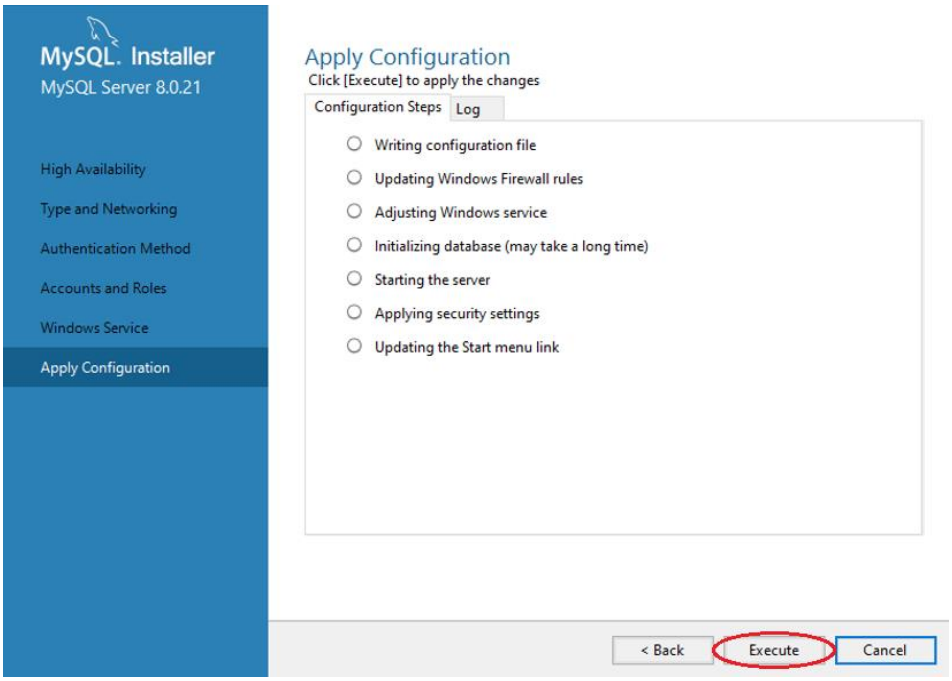


In **Accounts and Roles** configuration menu, for ***root*** user set up password "*root*", or any other password. But don't forget to memorize it or write it down, you will need later!

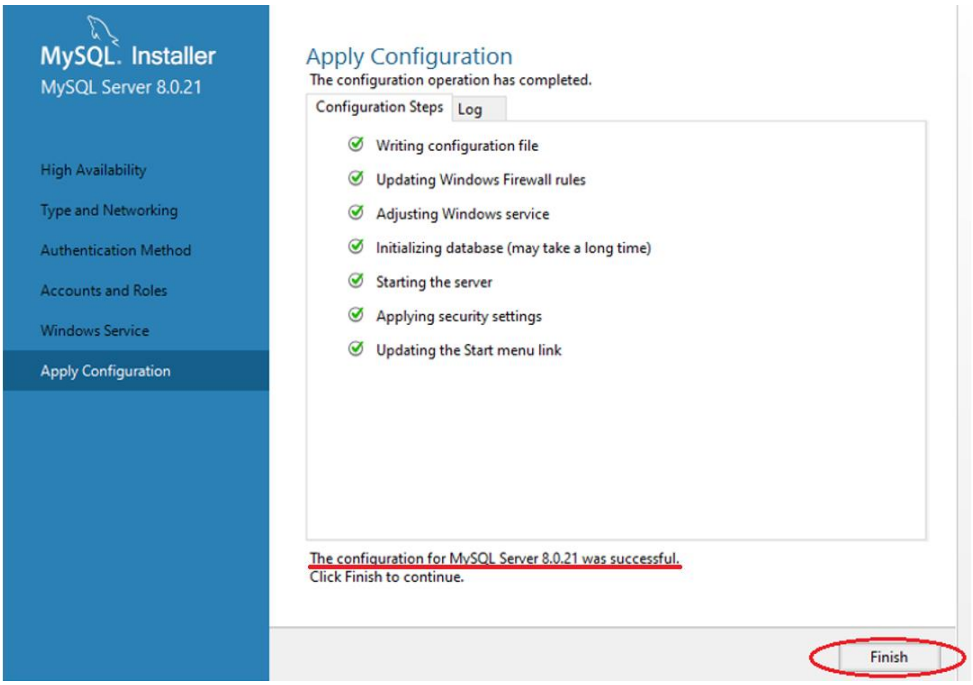
In Windows Service page no changes should be done, just make sure that you have everything the same as on the window below. Click **Next** button when you ready.



To confirm configuration that should be applied to the MySQL server, click **Execute** button.



In case message The configuration for MySQL Sever 8.*.* was successful is appear installation and configuration of MySQL Server is successfully completed. You can click **Finish** button to exit.



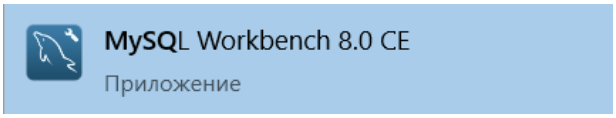
Now, when everything is ready you can go to **Database configuration setup**, which is next chapter of this manual.

Database configuration setup

When finishing MySQL installation, DB has to be set to use as data storage. The option that you ca do is actually simply open these MySQL scripts in MySQL Workbench, and execute them. You can copy & paste content of MySQL scripts in MySQL Command Line, but I strongly recommend you to do it in more user-friendly environment, via MySQL Workbench.

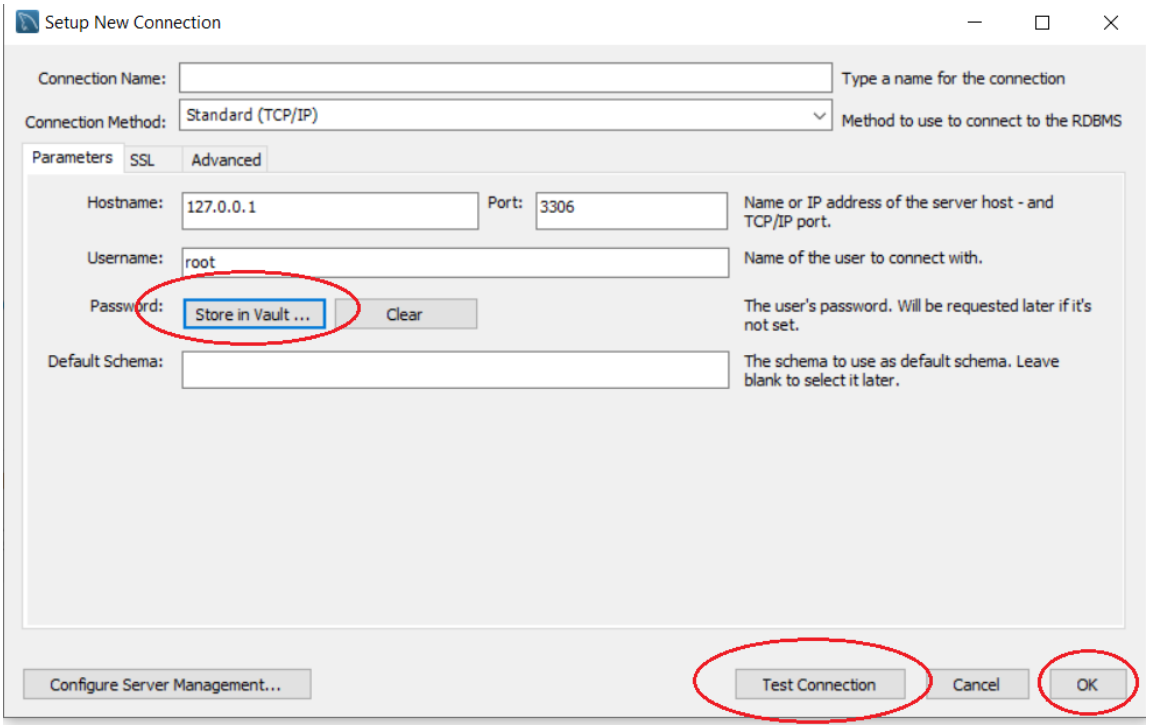
To set up database configuration

- Run the **MySQL Workbench.**

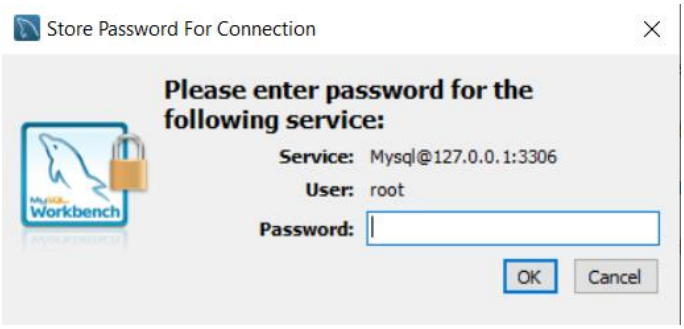


- Create new connection, by clicking **«+»** button, in the window that appeared on the screen.

There you have to set up *Connection Name*, *Username* and *Password*. You should use username “root” and password “root” or any password that already have been set up during installation by you.



To set password click **Store in Vault…** button. The window below will appear on the screen

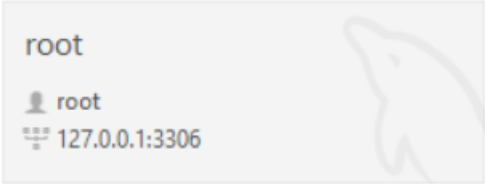


Username: ***root***

Password: ***root***

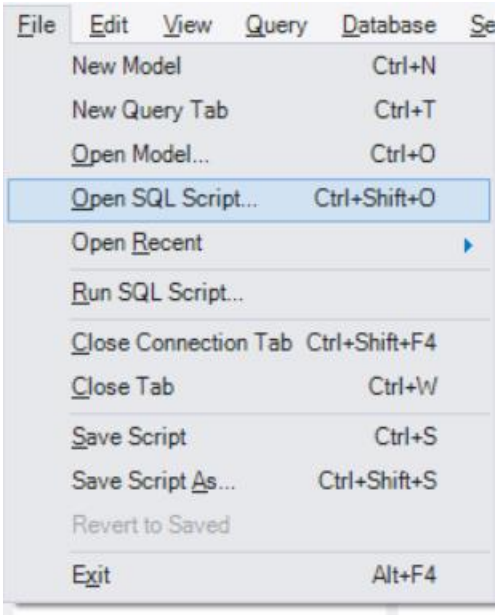
To confirm click the **OK** button.

When you complete it, click **OK** on the **Setup new Connection** window, and new connection will appear as shown below. Or click **Test Connection** to check connection before actually saving it.



New root connection

Now it's time to run prepared MySQL scripts. Click **Ctrl+Shift+O** or go **File->Open SQL Script…**



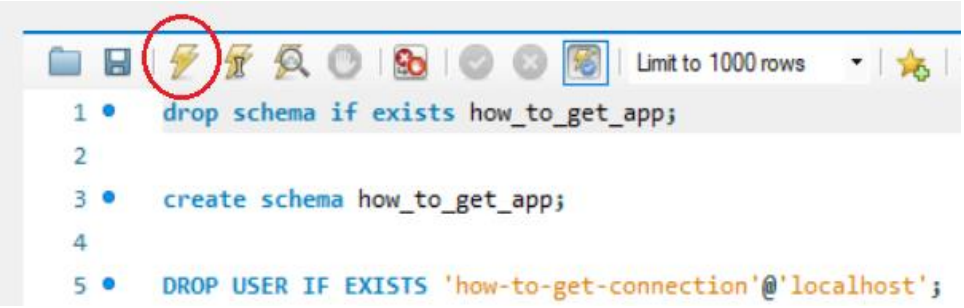
There find the directory, where you saved project. Then go to : how-to-get-app/how-to-get/**mysql/**

Run ValuesGenerator.jar to generate unique flights & buses for using it in database.

When you executed it, in **mysql** folder 4 MySQL sqript files will be located, which can be used to successfully configuire database:

- how-to-get-ddl,
-commercial_accounts,
-buses-to-insert,
-flights-to-insert.

Open ***how-to-get-ddl*** file and execute the script by clicking on **Execute** button.



When it successfully executed. Repeat the same procedure for:

-commercial_accounts.sql

And for 2 previously generated files:

-***buses-to-insert.sql***

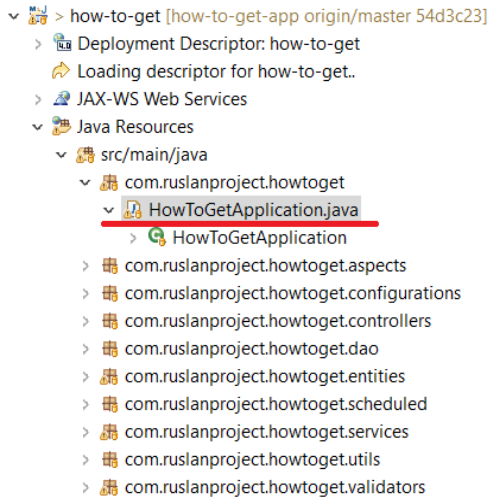
-flights-to-insert.sql

When all 4 MySQL scripts were run successfully, implies that the database configuration and content was set up successfully, application could be run.

Run project

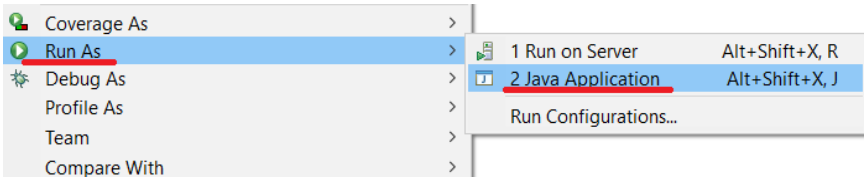
It is recommended to run it from the IDE(IntelliJ IDEA, Eclipse), by executing

/how-to-get/src/main/java/com/ruslanproject/howtoget/HowToGetApplication.java, which contains main method.



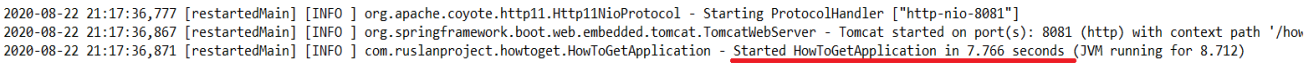
Class that contains main method

Simply **Right Click**->**Run As** -> **Java Application**



Now in *Console* logging messages will be shown. In case there are any errors or exceptions during running, please make sure that you successfully ran all MySQL scripts and you have internet connection(to let Maven download all dependencies).

If no exceptions are shown, means you did everything correct! Congratulations!



Now you can use application, just copy itlink below to the browser you use: http://localhost:8081/howtoget

All the information of how to actually use this application you will find in Manual_ENG or Manual_RUS files.