Node Server

Pages

2- Task Manager

3 – Node Server

4 – Node Server log

5 – Node Bid console/ Atom text editor

6 - Node File structure

7 – Node Routes

8 – Apache Server

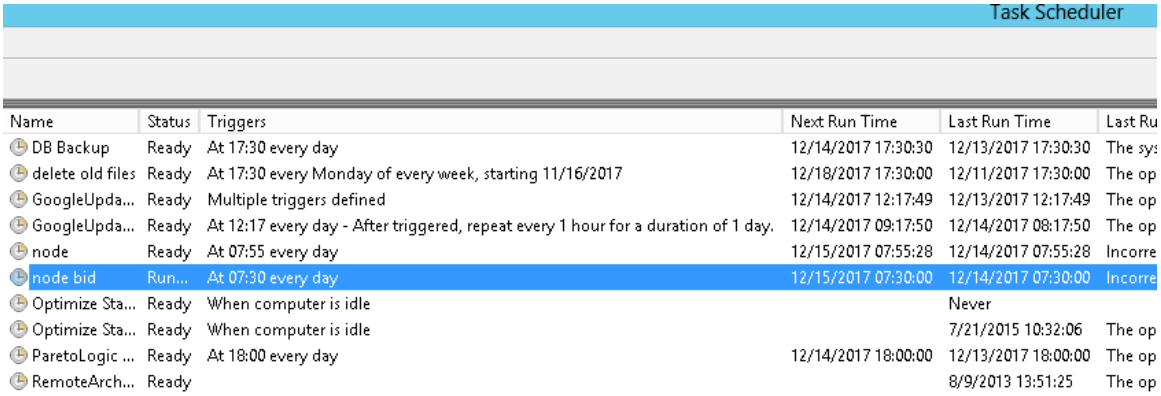
9- Workbench

10- Query tables

11- MySQL File Structure

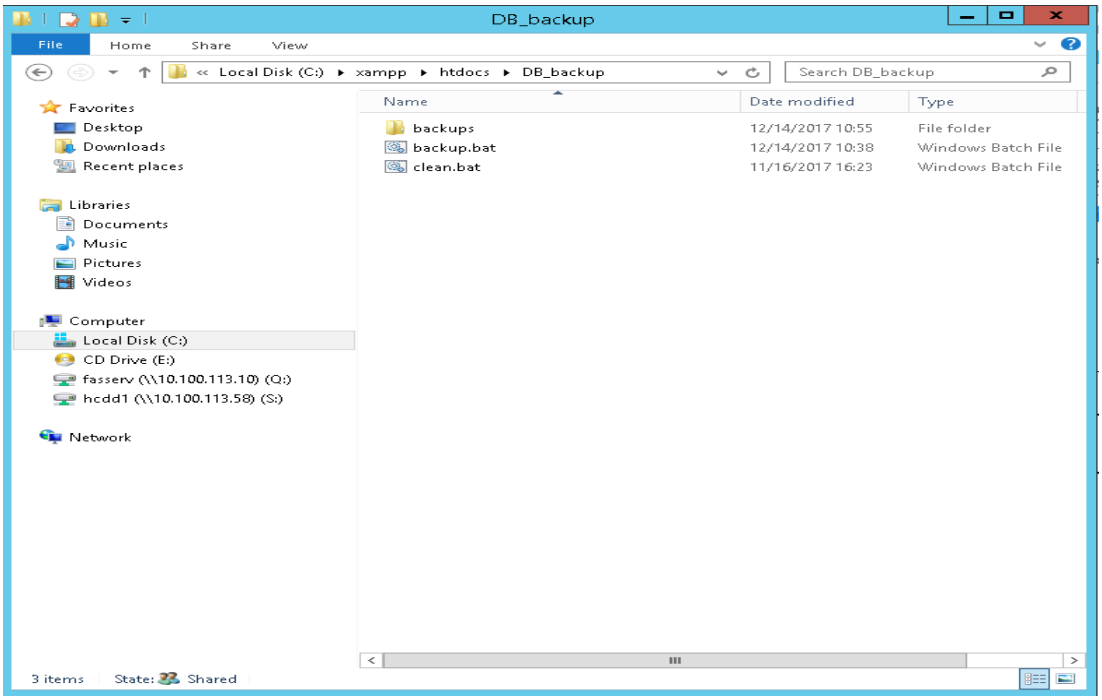
12- Final Notes

Here under **task scheduler** you can find the different tasks that get run automatically.



In descending order we start with **DB Backup** which is a batch file that backups the database 'time' from MySQL.

You can find the batch file in the following path *C:\xampp\htdocs\DB_backup*

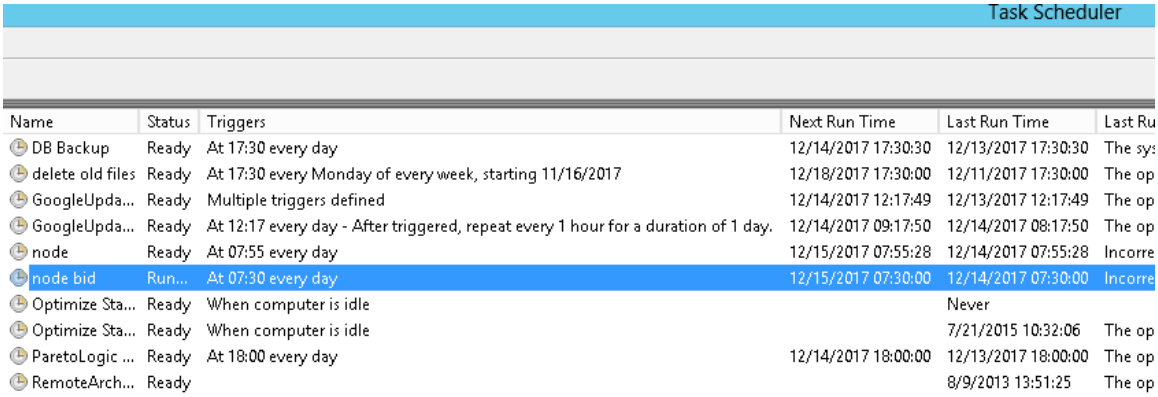


backup.bat as the name implies, creates a backup of the database time every day at 5:30 pm .

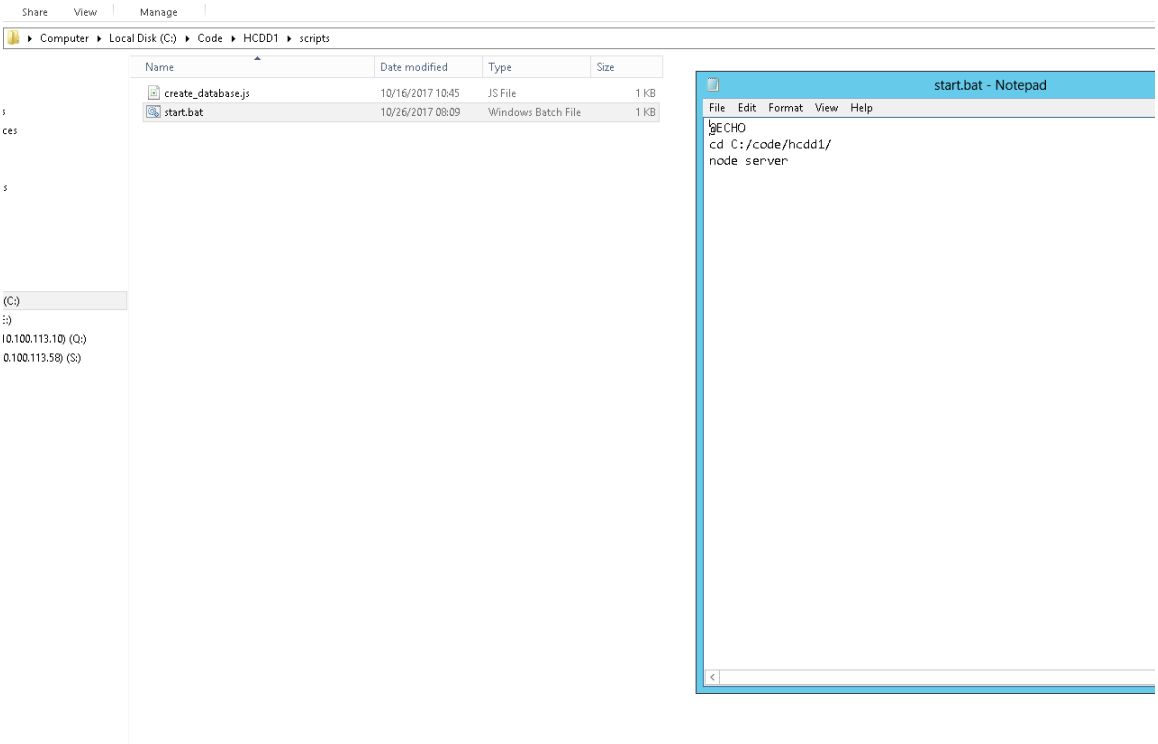
This files are created under the backup folder.

clean.bat cleans old database copies every Monday, it should delete anything older than a week .

Node and **node bid** tasks, are for starting the 2 node servers. Each one is a different application in different ports. Node hccd1 runs on port **8081** and node bid runs on port **8082.**

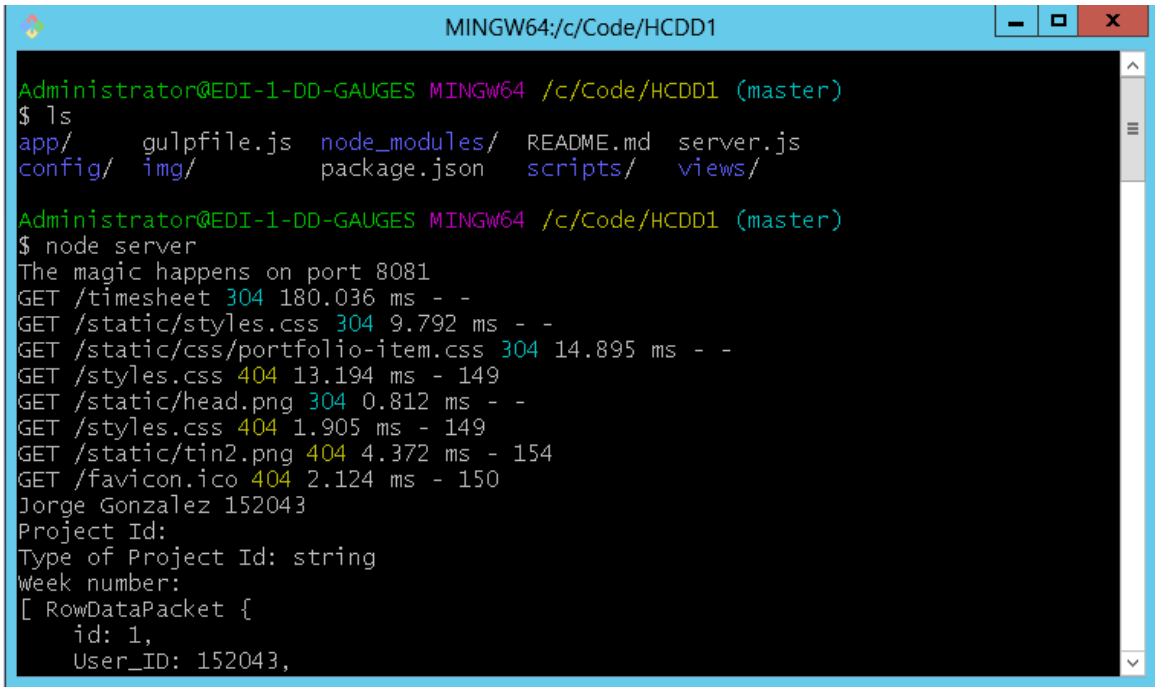


The node task runs the following batch file *C:\Code\HCDD1\scripts\start.bat*



As you can see, the batch file is quite simple, it just changes the folder to *C:\ code\hccd1* and then executes node with the argument server. All the node code exists under the folder *C:\Code\HCDD1*

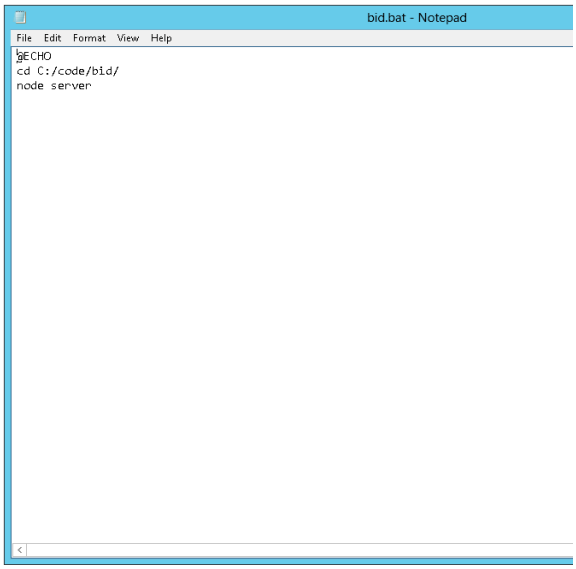
If you wish you can enter the folder in *cmd* and just type *server node* and press enter and the server should start on port **8081**.



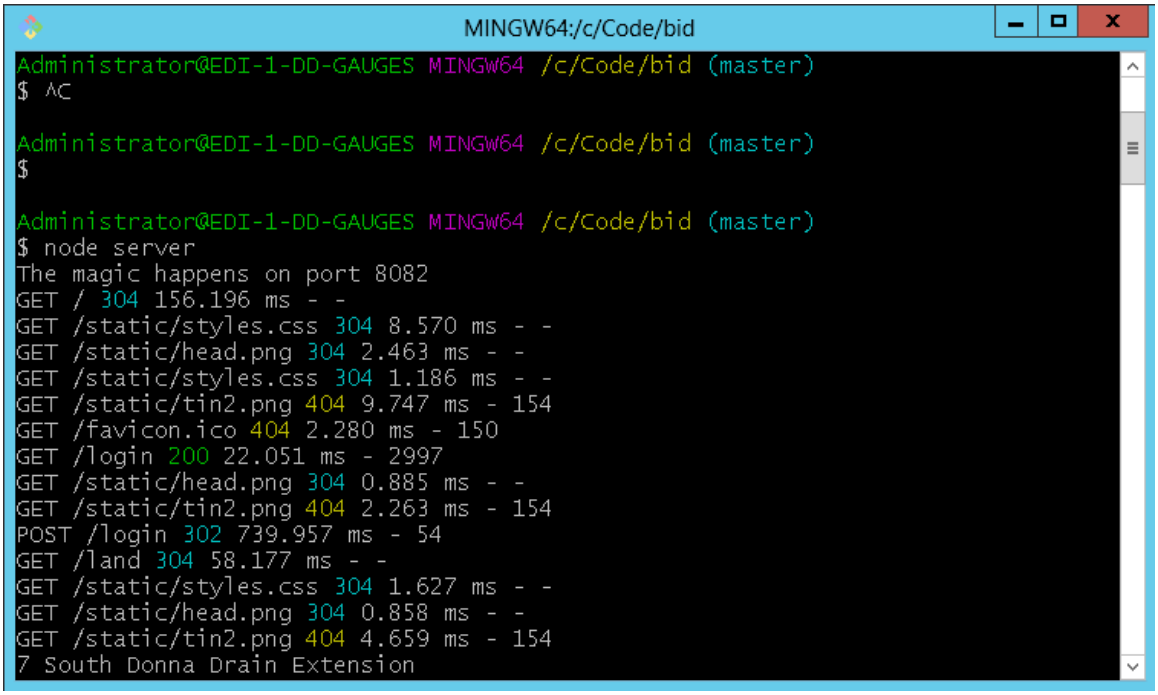
You can see the port and also different kinds of logs coming from the JavaScript code.

It's the exact same thing for the second batch file *bid.bat* located at

C:\Code\bid\scripts\bid.bat

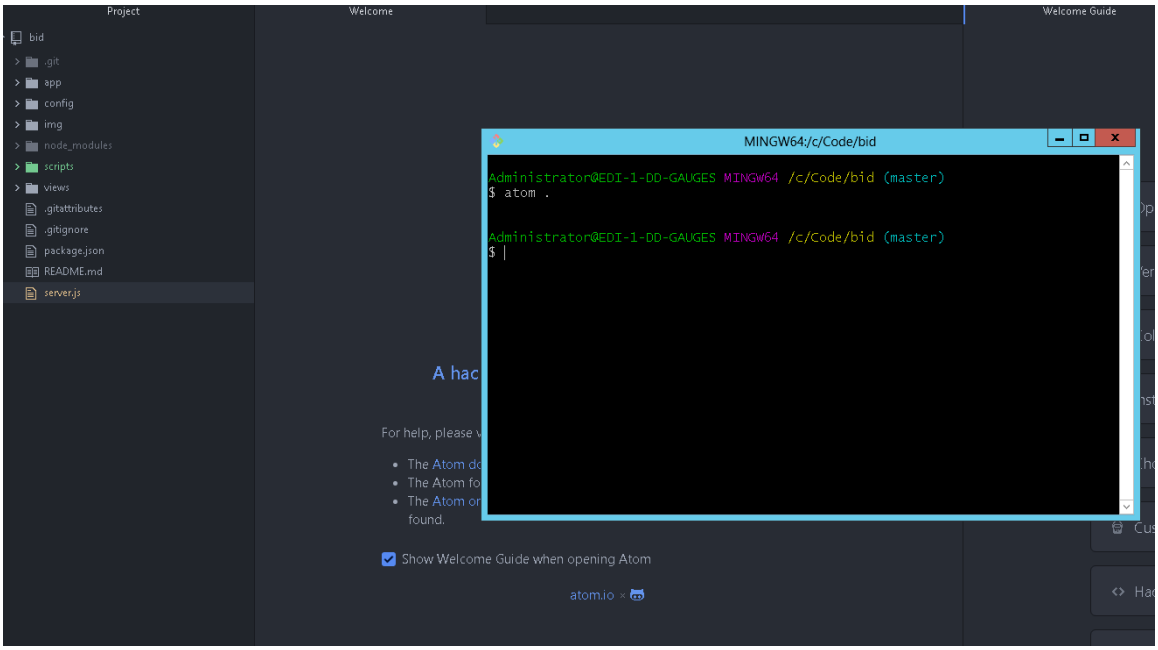


The console will look the same only that we are running on port **8082**.



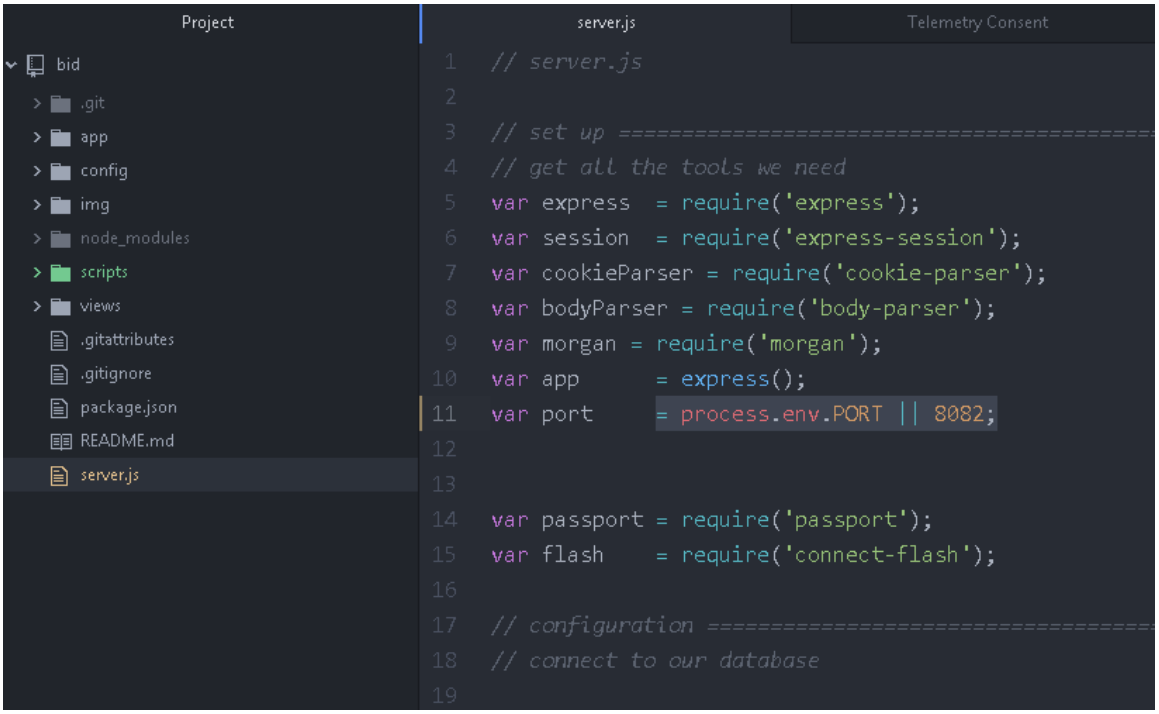
The way I edit code is with the **Atom** word processor by GitHub.

I do that by right clicking inside the folder and then typing *atom .* To open the whole folder in **Atom**.



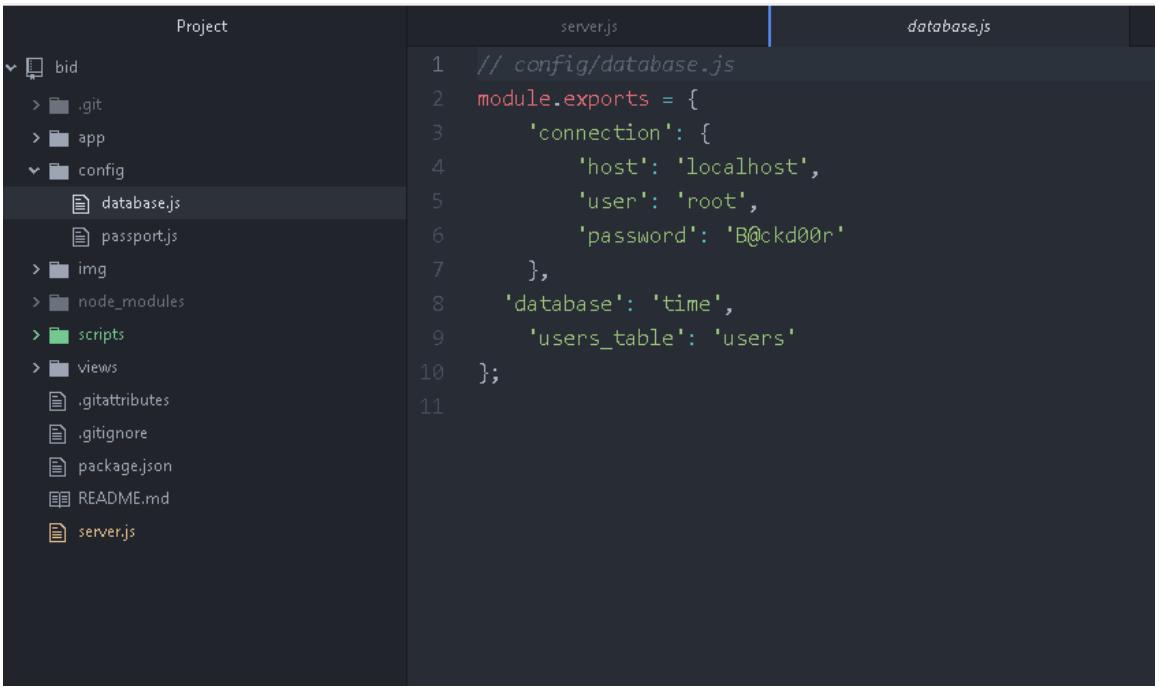
To the left you can see the file structure which is almost identical in every node project. *server.js* is the file we run using node and starts the whole server.

Inside *server.js* you can change the port in which to listen.

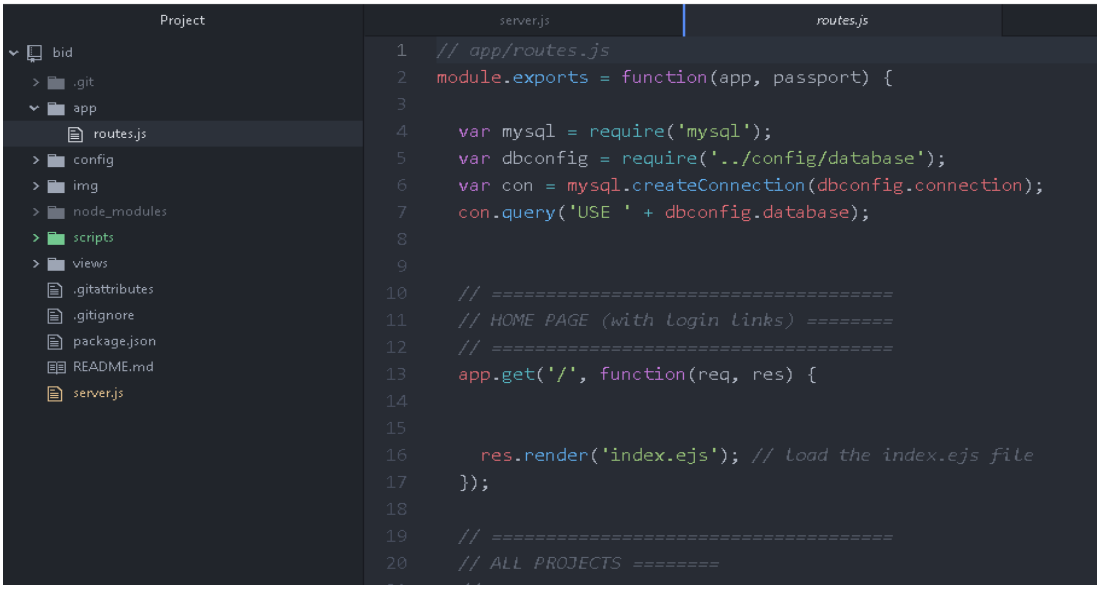


After you modify the file just save the changes and restart the server. First stop it by going to the console and pressing *ctrl+c* and then type *node server* again. Then, changes should take effect.

Under ./bid/config/database.js you can find the connection file that setups the MySQL connection.

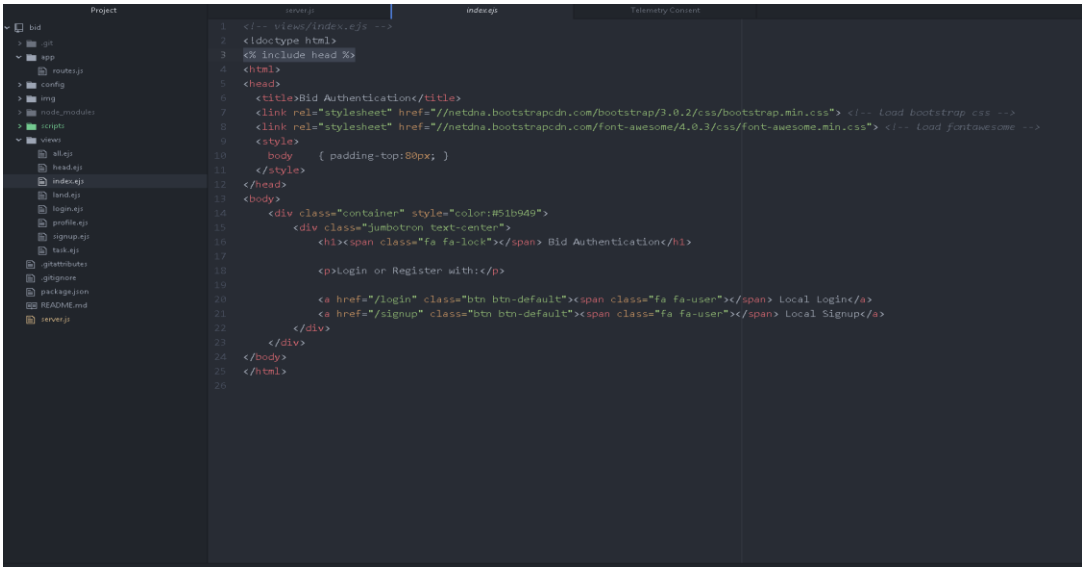


Under *./bid/app/routes.js* you can find the routes that the server handles.



In this case you can see how *app.get* gets *'/'* AKA homepage and renders *index.ejs* .

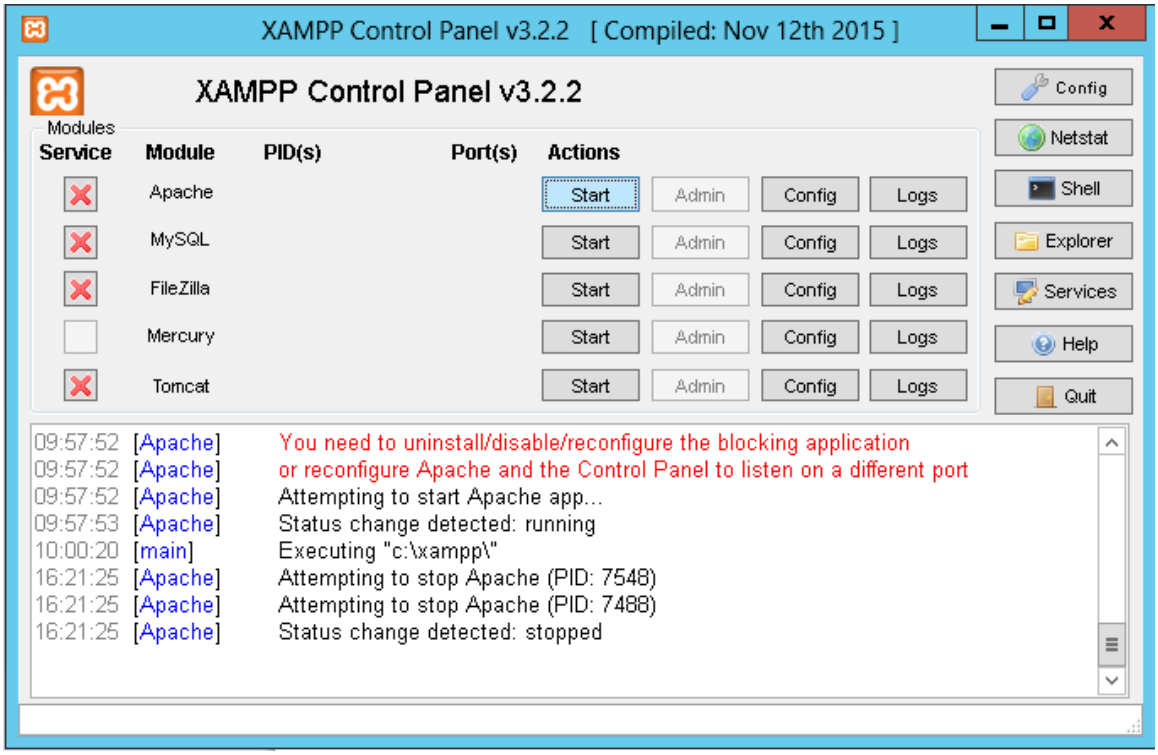
ejs is almost identical to html but it allows you to insert vanilla JavaScript.



In this case you can see, we insert JavaScript by using *<%* to open and *%>* to close .The code is including head , which means include the *head.ejs* file, which has most of the styling and the header. This way you can include the header easily in any page with one line of code.

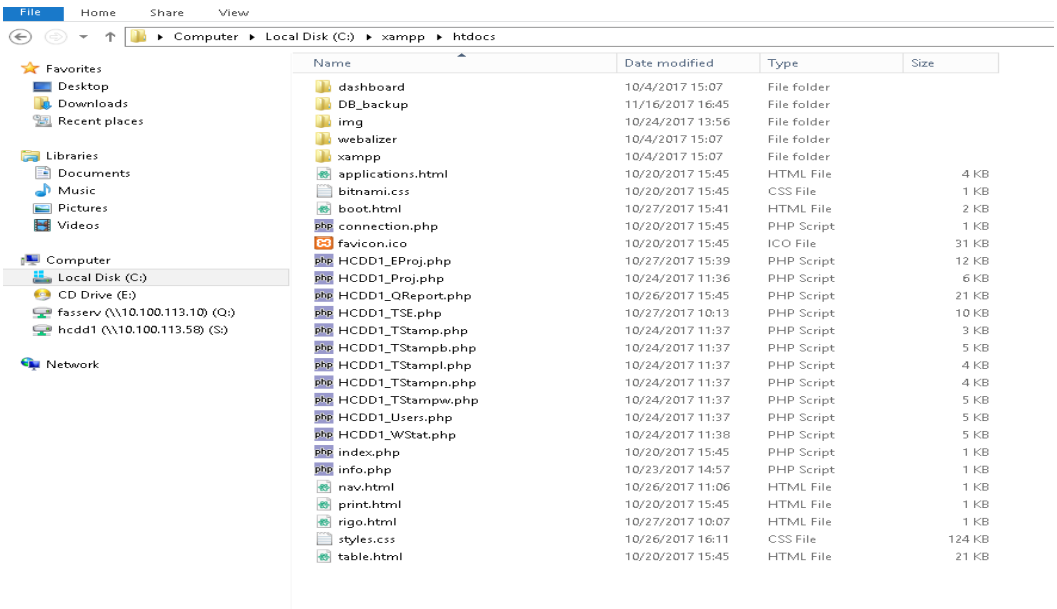
That covers most of the vital parts of the node structure. Any other project should follow a very similar format.

The apache server serves php and there is nothing needed to do. The server should start automatically, however if needed you can always access the xampp controler by pressing the windows key and searching for xampp.

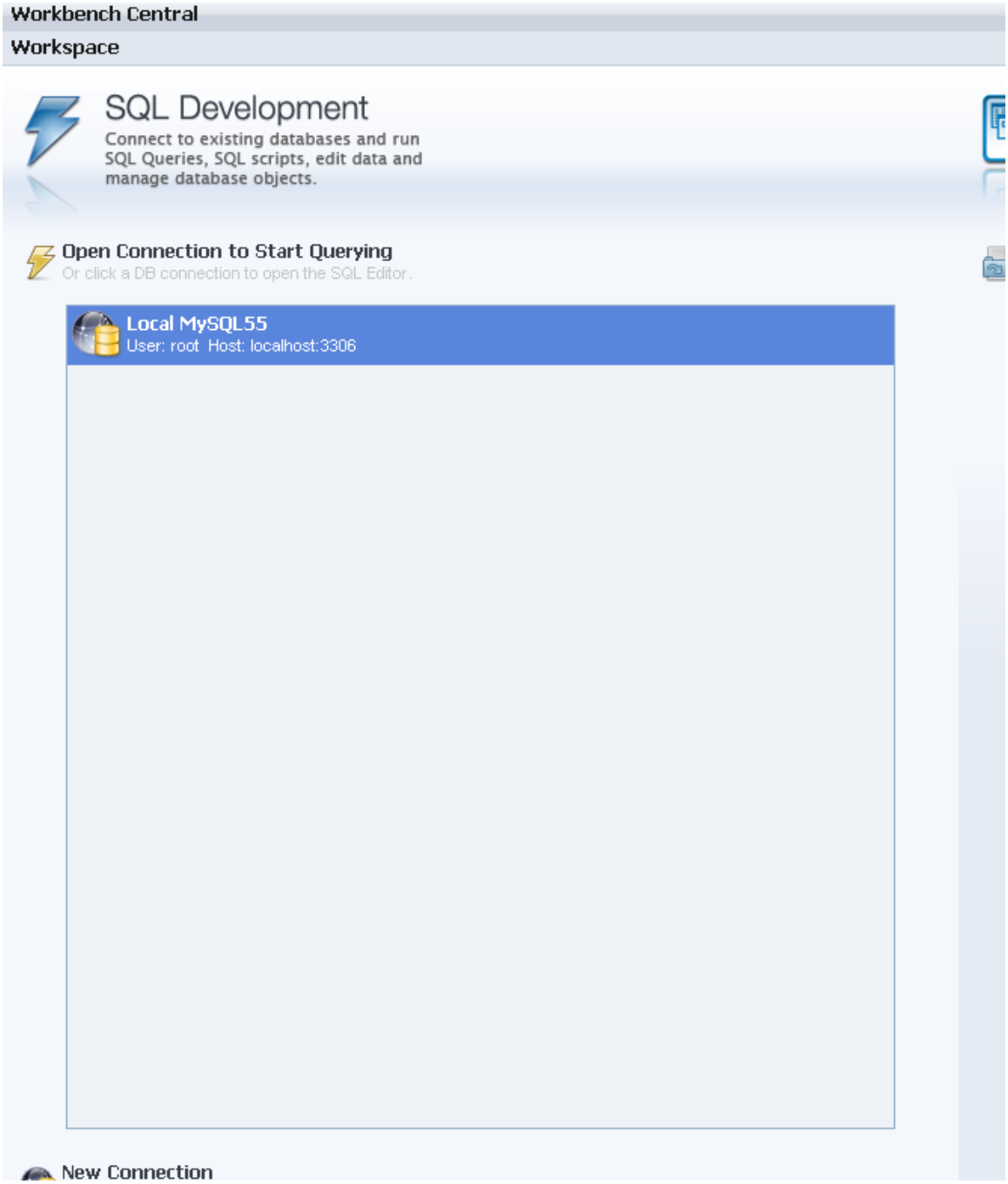


Click on start apache server and it should begin serving php on port **81**

The php and html files served by apache can be found at *C:\xampp\htdocs*



Arguably, the easiest way to check and modify the database is trough workbench. To open, is just like **xampp**. Just press the window key and type **workbench** and open the program.

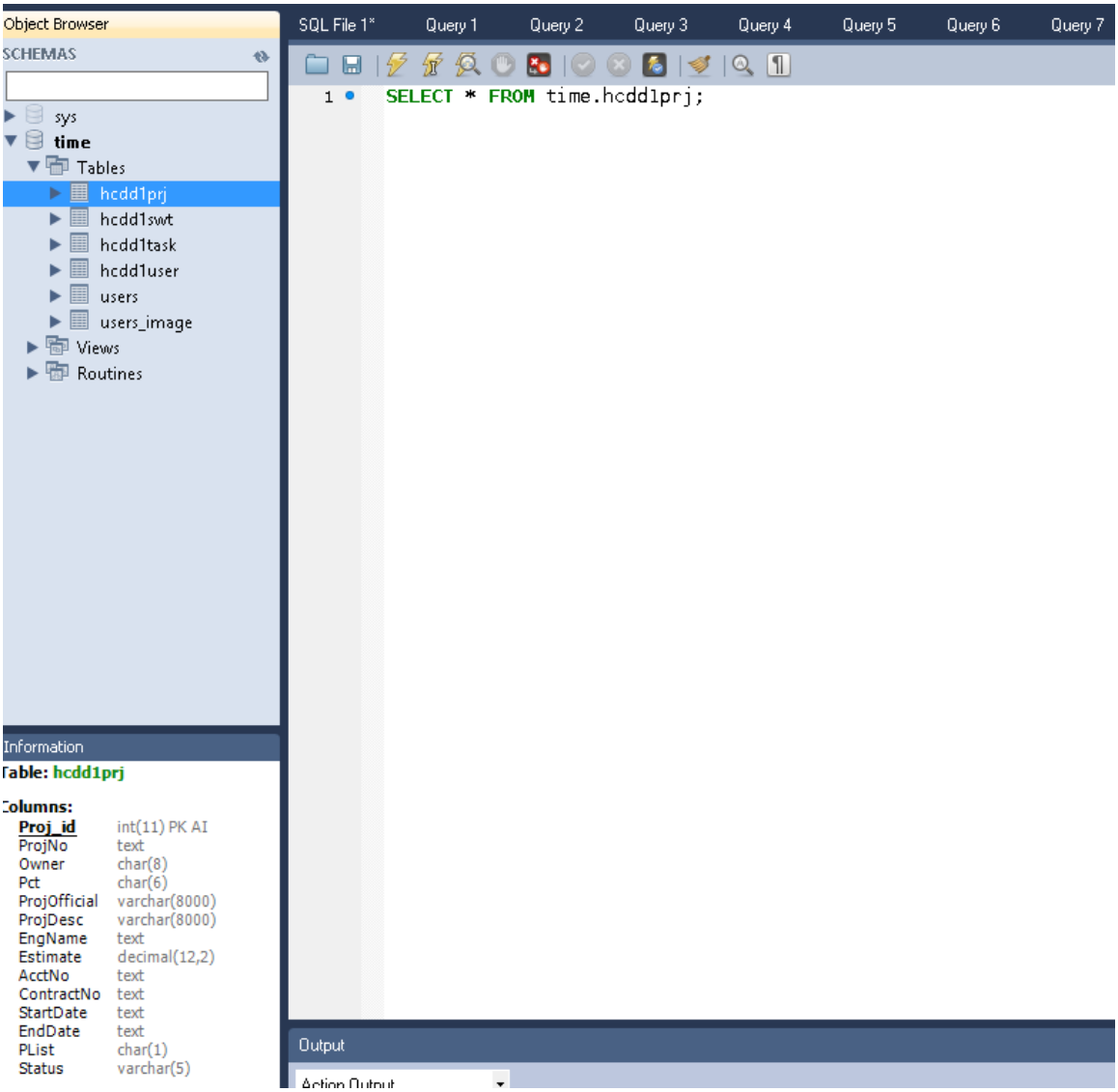


Select local MySQL and enter user=*root* password=*B@ckd00r*

You can also connect from a different computer by specifying the IP address or the computers name instead of 'localhost'.

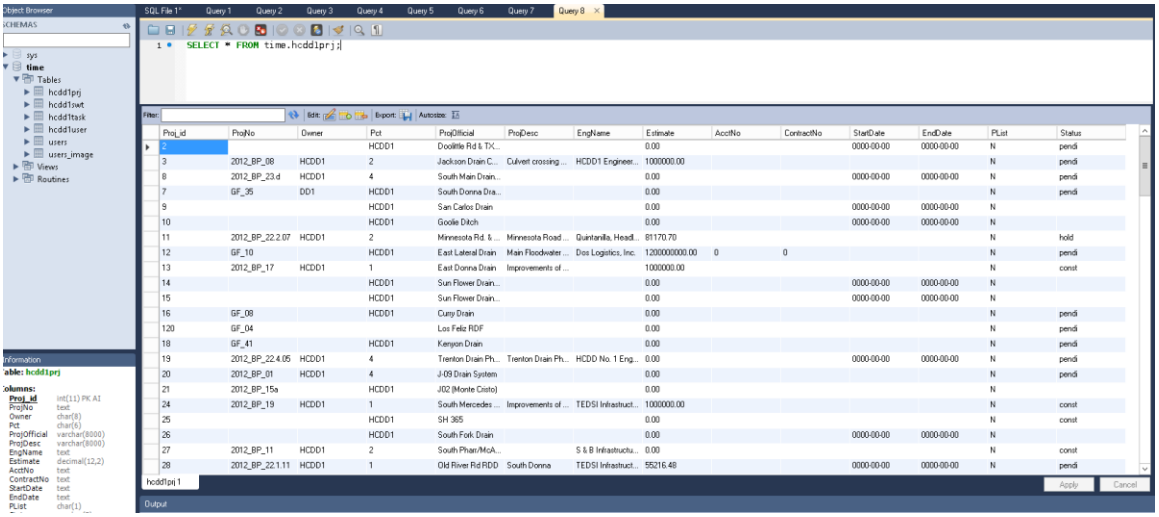
The database we use, is called time and there are several tables inside it .You can click on any table and then press the lighting button. This will display the contents of the table.

From here you can modify induvial cells or delete and create whole rows.



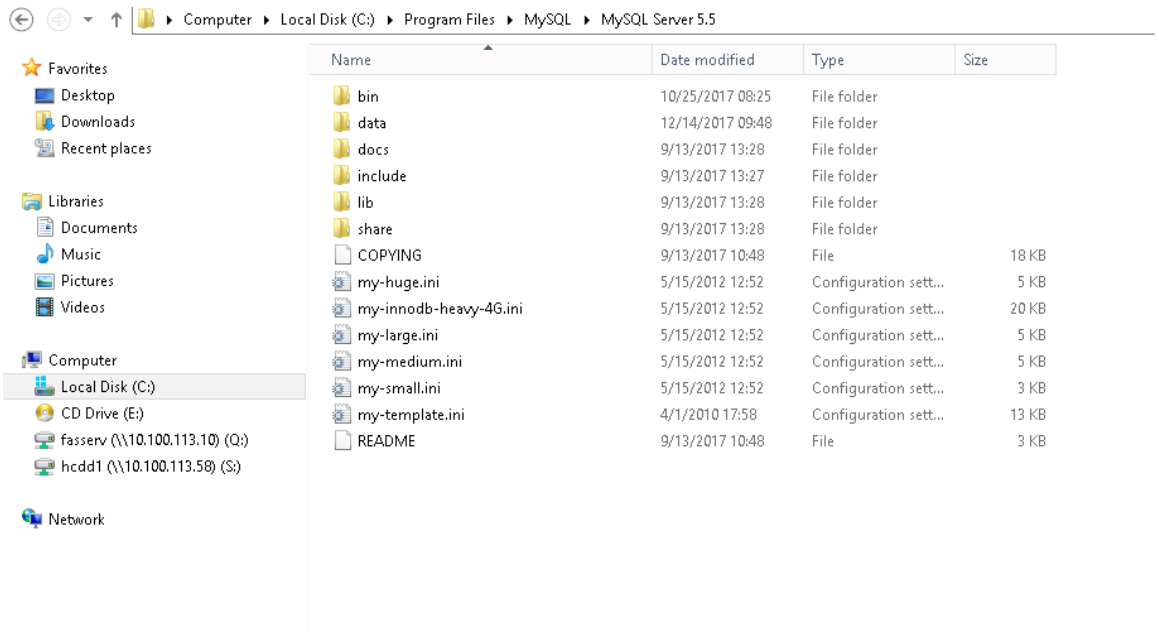
Pretty much any operation that can be done through cml, can be done through workbench.

All the typical CRUD operations.



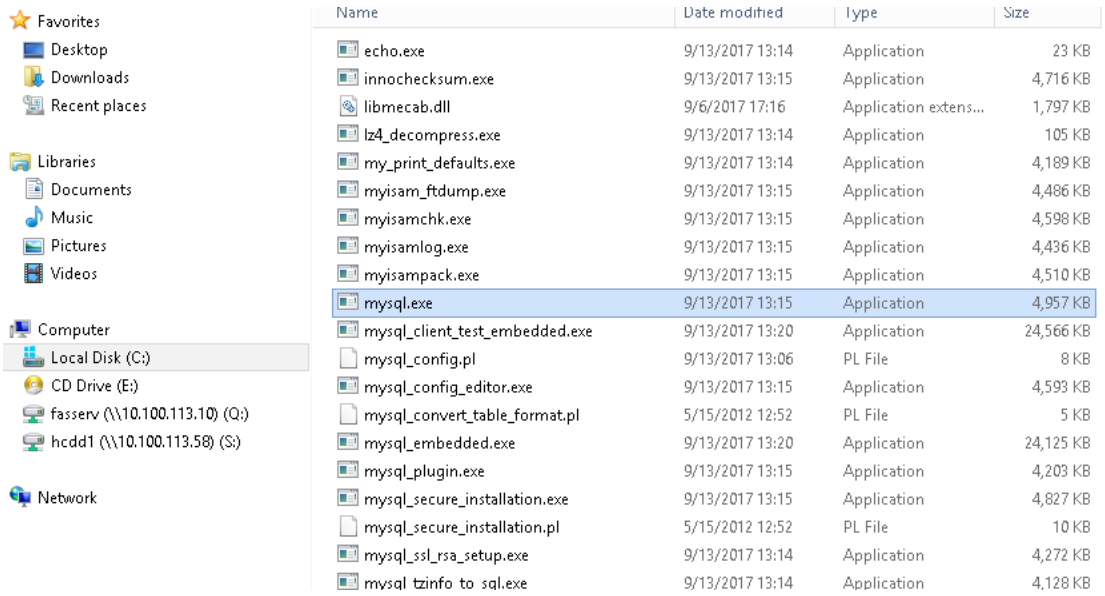
Finally the MySQL version running in the server is the 5.5 this is for compatibility purposes.

You can find the software under C:\Program Files\MySQL\MySQL Server 5.5



Binary files and executables are under bin.

So if the MySQL server is down, you can run it from there



I think this should cover most of the inner works of the server, if there is any remaining questions please contact me at rigoberto.resendez@hcdd1.org.