

Welcome back in the last task we saw that the database administrator of ABC investment firm was able to write his first python script. Now he wants to write a python script which connects to the Maria DB database server Let us see how this can be achieved. Now install the distutils package which provides support for building and installing additional modules into a python installation. For that execute the command `sudo apt install python3.9-distutils -y` and press enter. Install the python package installer using the command `sudo apt install python3-pip -y` press enter. Once it is successfully installed, use the pip command to download the packages required for connecting to the Maria DB database server, using the command `pip3 install mysql-connector-python`, press enter. Cool! you have finally got everything set up for connecting to the Maria DB server using python. Now let's start writing python script which enables us to connect to the Maria DB database server. Let us modify the already written python script in task 4 That is `myscript.py`, type `vi myscript.py` press enter. Press `I` to get into the insert more import the module. My SQL dot connector for connecting to the Maria db server. You would provide an alias to the module and name it as Maria DB for ease of use. Now you have all the necessary inputs. Let us see how they can be used to connect to the database. As a next step, you need to create a connection variable to ensure the connectivity to the database. This can be achieved by creating a variable "con" and using the `mariadb.connect` method Let us pass all the inputs to the method Within the parenthesis, type `host=hostname, user=username, the name. database=database, password=password` Now add a print statement, to check if the database connectivity is established successfully. Print the statement "Connection established successfully. Look at the screen and type. Good! since, limited number of connections allowed to a database server from the remote machine it is always a good practice to close the connection after the task is completed. So, to close the connection use `con.close()` parenthesis. Press the escape key, to exit from the insert mode. press `:wq` and hit enter to save and exit from the visual editor. As you observe in task 4, execute the script using the command `python3 myscript.py` press enter. The first prompt will be for the hostname you will enter the hostname as localhost and press enter. The second prompt is for the username. You will enter user1, which you created in task 3 press enter, the 3rd prompt you will enter the database name

which you wish to connect, at this point you had already created a database Employee, provide Employee as the database name, press enter. In the final prompt you will enter the password as abc@123 press enter. Cheers! you can see the print statement "Connection Established Successfully. Your python script can connect to the Employee database hosted on localhost successfully. Now pause the video and run the script myscript.py by passing hostname as localhost, username as user2, database name as Department and finally the password of user2 to as abc@123 Remember the database Department and username user2 are already created it task 3. Did you observe the print statement connection established successfully? Once again. If so you have successfully accomplished the task of establishing the connection to Maria DB. Database server. Using python script. Congratulations!!! on completing this guided project on establishing database connectivity using python script. In this guided project, we discussed how to install python interpreter, install and configure Maria DB database server and how to connect the Maria DB database server using python script. Great! by now you should be comfortable connecting to the Maria DB database using a python script. Remember to continue testing your knowledge about the material covered in this project by completing the final graded quiz. Thank you for spending this time with me today and I hope you enjoyed this project. I'm Swetha Maheshwary and it's been a pleasure guiding you. Thank you!