§Web Programming

## Topic: Installing MySQL Connector with Python

**Instructions to install new Package (mysql-connector-python) with Python34**

Python34 standard libraries do not include **mysql-connector-python**. This means we cannot connect python programs with MySQL database. This practical sheet will guide you step by step to install mysql-connector-python on your memory stick.

**Pre-requisite:**

1. You already have working version of xampp on your memory stick
2. You have already copied Python34 folders on root of memory stick.
3. You have already changed httpd.conf file (on xampp) to ensure that python scripts are recognized by apache server and interpreted by web browsers

If all above is working then you are ready to move to next step and learn how to install new packages (and in particular) mysql-connector-python

Following steps need to be performed:

**Windows Users:**

1. Load command prompt by typing ‘cmd’ in Windows Start Menu

2. Go to Python34 folder on your memory stick

2a. Type drive letter e.g. if your memory stick is enabled as X: then type X: and press enter

2b. Type cd Python34 and press enter

2c. your screen should show X:\Python34

3. You need to upgrade pip tool that is python installation utility (this is optional).

* 1. pip install -U pip
  2. pip directory is: Python34\Lib\site-packages\pip
  3. pip.exe file is in Python34\Scripts\

4. Now type following command to install mysql-connector-python connector

* 1. X:\Python34> X:\Python34\Scripts\pip install --allow-all-external mysql-connector-python
  2. Above command will install mysql-connector-python on you memory stick. You should see a success message.

1. Now you need to check if mysql-connector-python is working
   1. On command prompt, type **python** and press enter to start python interactive mode
2. Then Type

import mysql.connector

if no error is displayed then your installation of mysql connector is successful

If you still see an error then do following steps:

* + 1. Go to X:\Python34\Lib\site-packages\
    2. See if there are two new folders ‘mysql’ and ‘mysql-connecto……’
    3. If these folders are not in the above directory then go to C:\Python34\Lib\site-packages\ and copy above two folders from above C path and paste them in X path.
    4. Now try import mysql.connector

**Mac Users:**

1. You need to upgrade pip tool which is python package installation utility. Please make sure you’re already in /usr/local/bin folder where python34 or later exists (I am assuming your python34 is in /usr/local/bin folder).
2. You can do it by typing
   1. python -m pip install -U pip

OR

* 1. pip install —upgrade pip

1. Then run command from terminal:
   1. sudo pip3 install --allow-all-external mysql-connector-python
2. Now you need to check if mysql-connector-python is working
   1. Type **python** and press enter to start python interactive mode
3. Then Type
   1. import mysql.connector
   2. if no error is displayed then your installation of mysql connector is successful

**IMPORTANT:** Sometimes Apache PYTHONPATH environment variable is not set and CGI scripts won’t be able to load new library packages e.g. mysql.connector. If this is the case then you must set up PYTHONPATH environment variable for Apache by adding the following line to httpd.conf

*SetEnv PYTHONPATH /Library/Frameworks/Python.framework/Versions/3.5/lib/python3.5/site-packages*

**Note:** Please add the path as per our system folder structure.

**Next Steps:**

Go through and try MySQL examples with connector/python

<http://dev.mysql.com/doc/connector-python/en/connector-python-examples.html>

**Other useful Resources:**

Some useful resources for future reference when you need to install other modules, packages or frameworks to work with python.

All packages:

<https://pypi.python.org/pypi?:action=browse&c=533&show=all>

mysql-connector-python

<https://pypi.python.org/pypi/mysql-connector-python/2.0.4>

installing packages:

<https://python-packaging-user-guide.readthedocs.org/en/latest/installing/>

python official docs:

<https://docs.python.org/3/installing/>

Virtual Environments and Packages: <https://docs.python.org/3/tutorial/venv.html>

<https://docs.python.org/3/glossary.html#term-virtual-environment>

virtual environment

<https://docs.python.org/3/using/scripts.html#scripts-pyvenv>

Python setup and Usage - <https://docs.python.org/3/using/index.html>

Python on Mac - <https://docs.python.org/3/using/mac.html>

Python on Windows - <https://docs.python.org/3/using/windows.html>

Command line and environment - <https://docs.python.org/3/using/cmdline.html>