

Python and MySQL

Connection, Create Database, Create Table, Insert Rows and Query

Prerequisite:

1. MS- visual studio redistributable 2015 package or above

(<https://www.microsoft.com/en-in/download/details.aspx?id=48145>) 64-bit

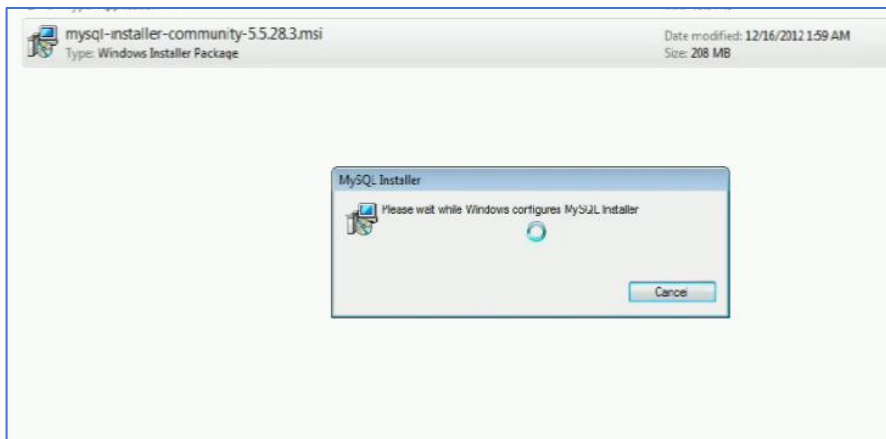
2. MySQL installer

(<https://dev.mysql.com/downloads/installer/>) select: Server: mysql-installer-community-8.0.19.0.msi

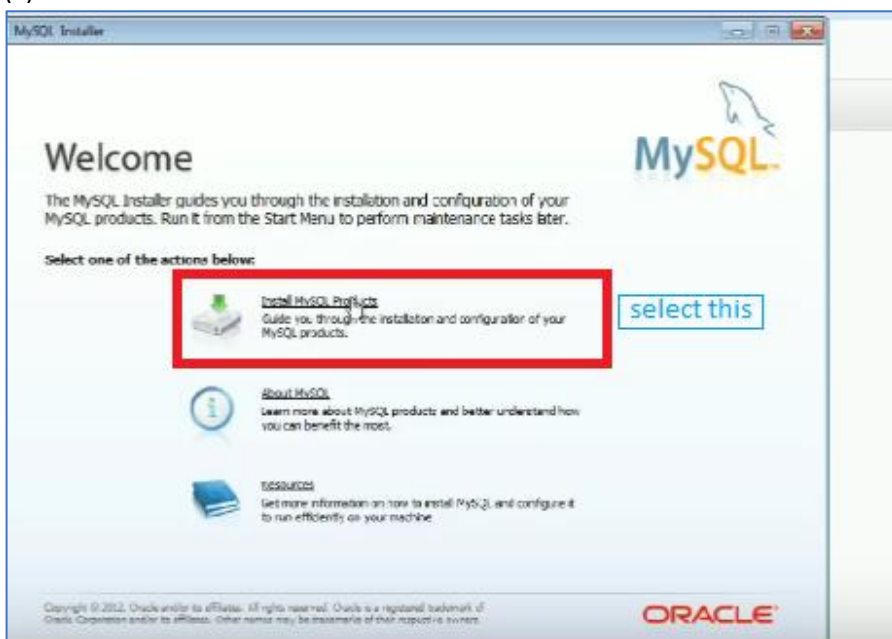
old: <http://ftp.iiij.ad.jp/pub/db/mysql/Downloads/MySQLInstaller/mysql-installer-community-5.5.28.3.msi>

After download:

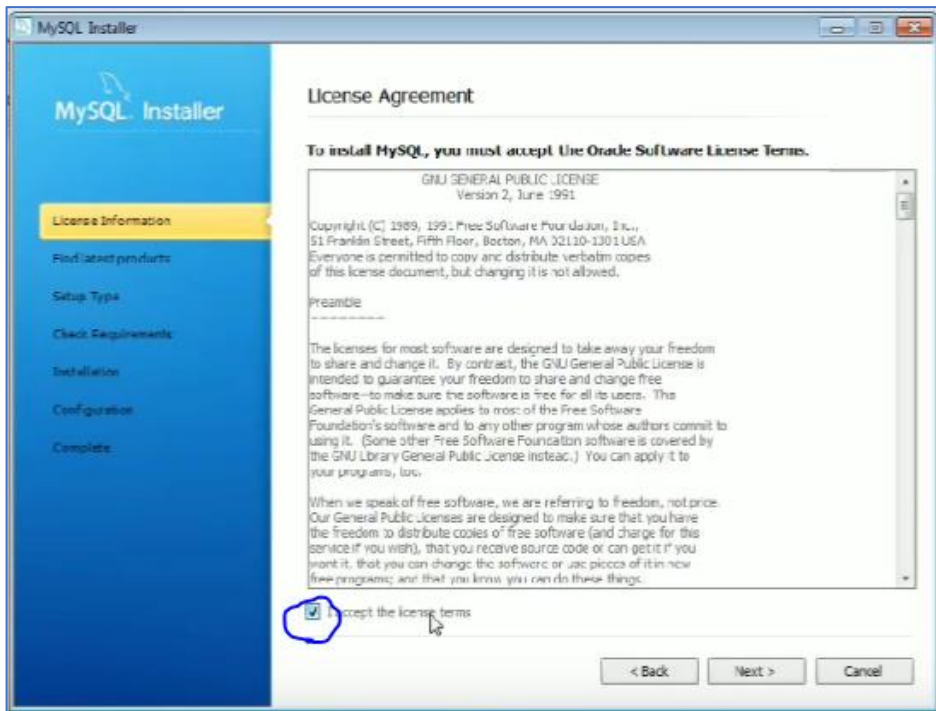
(i) Install it



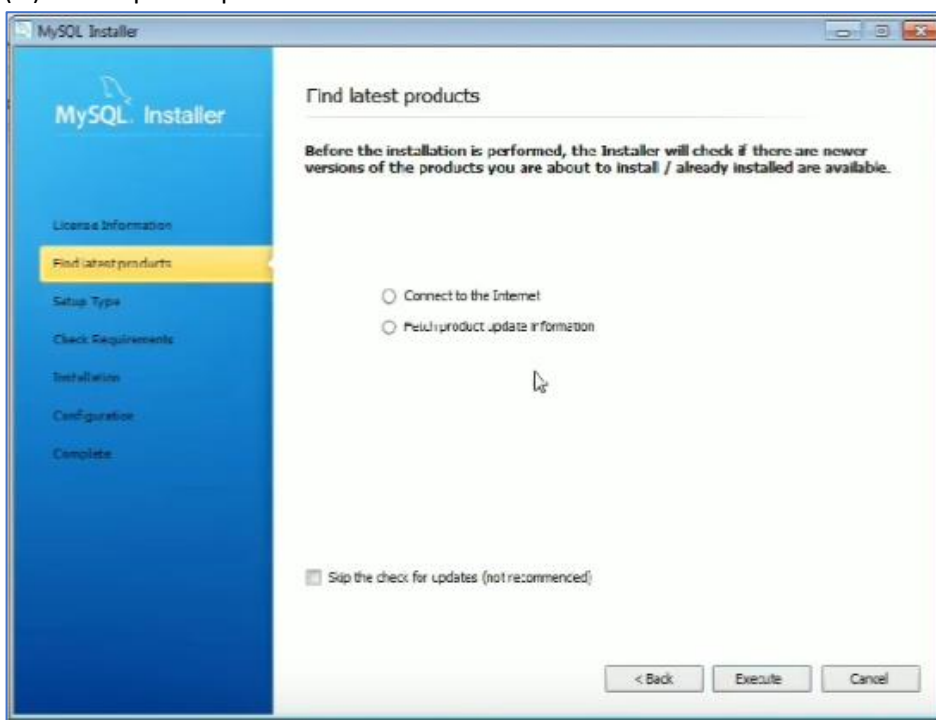
(ii) Select



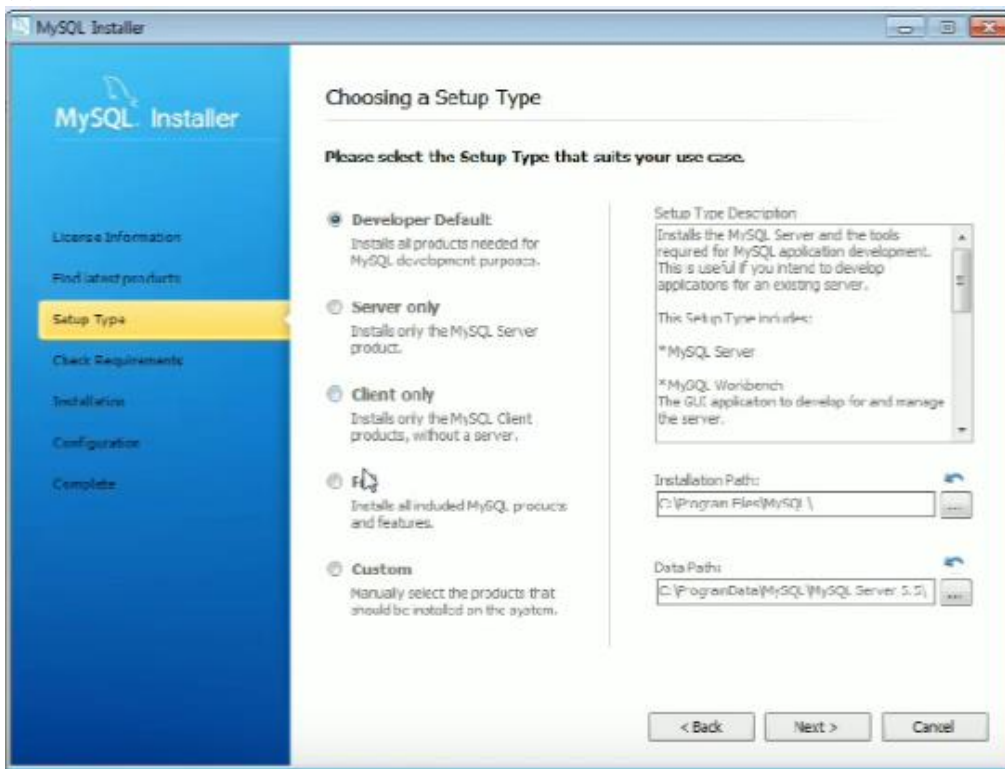
(iii) Accept the licence



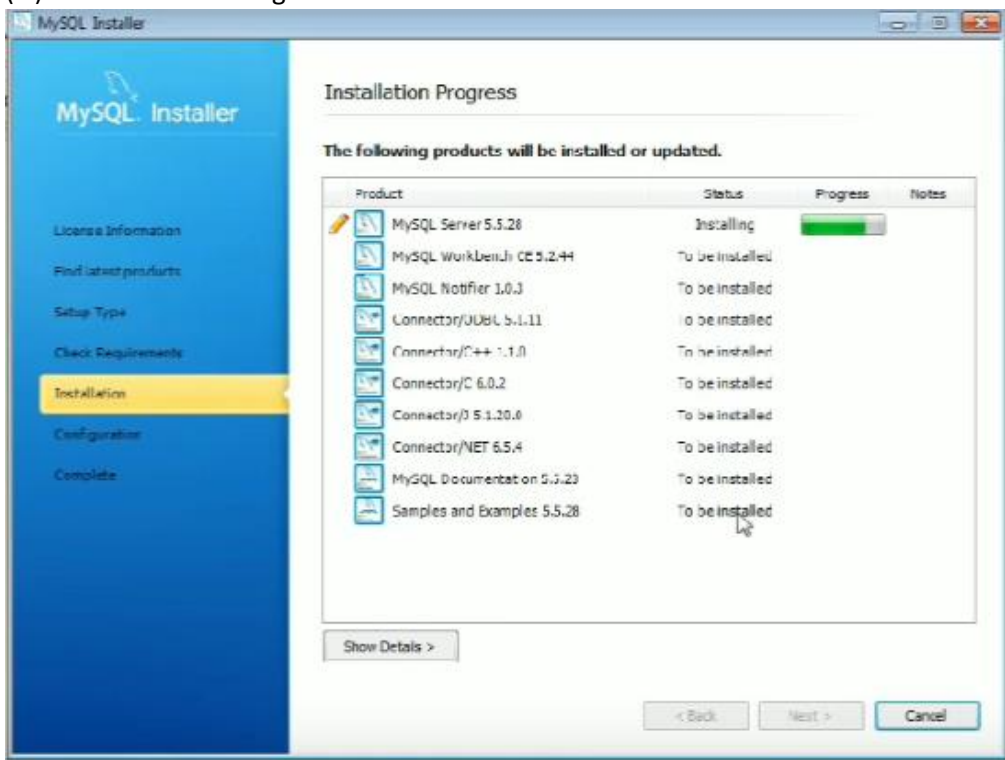
(iv) Skip the Update



(v) Select FULL > Next > Execute



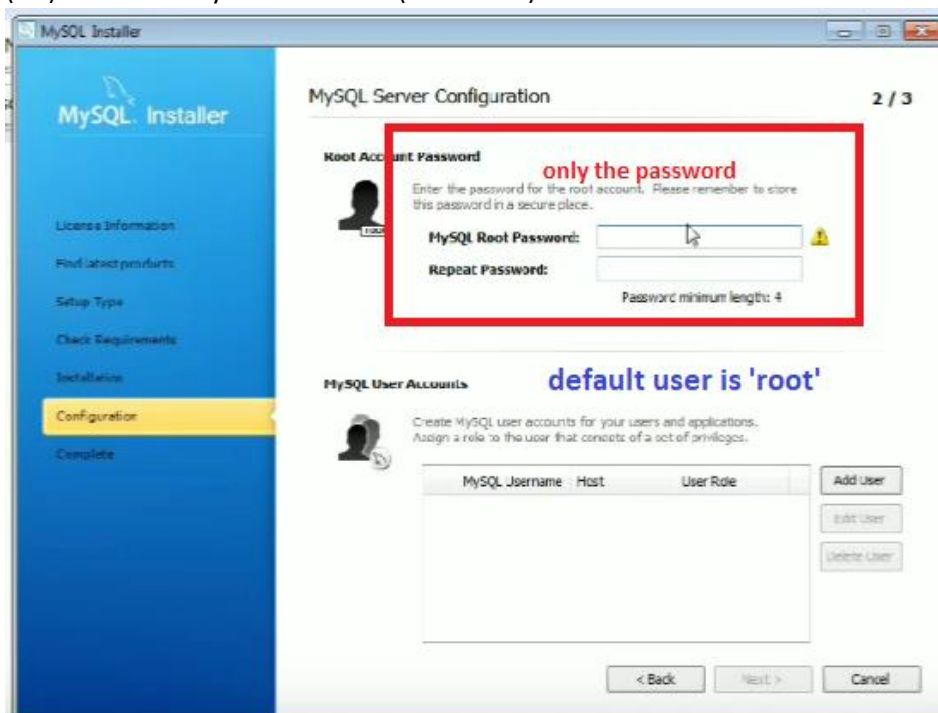
(vi) Installation Begins



(vii) Configuration (Leave as it is) and Enable the check button (Show Advanced Options)

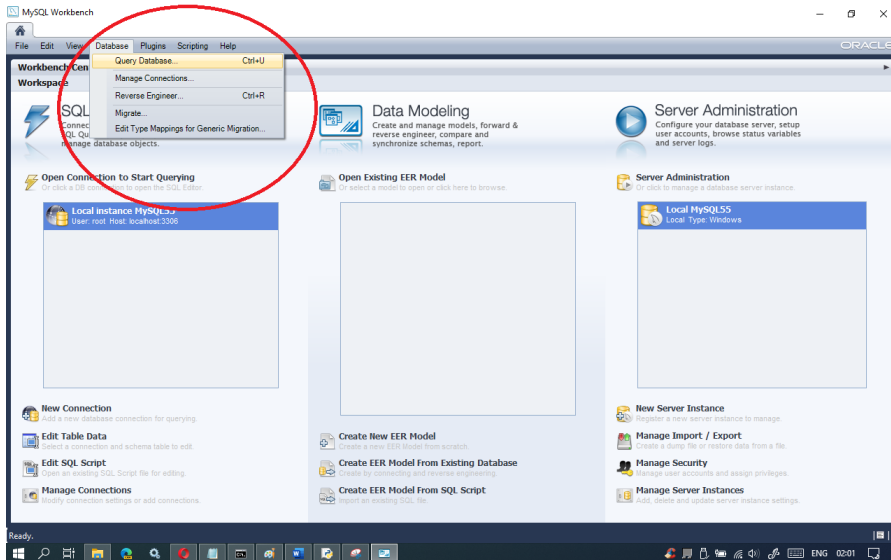


(viii) Enter only the Password (two-times)

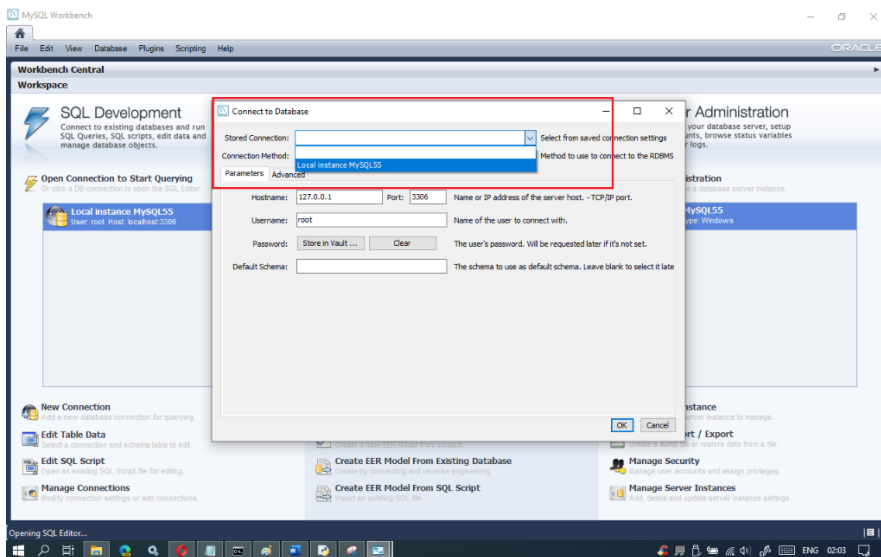


(ix) Finish & Run the Workbench

(x) Check for available users, databases & Tables (Select Query database from Database Menu)

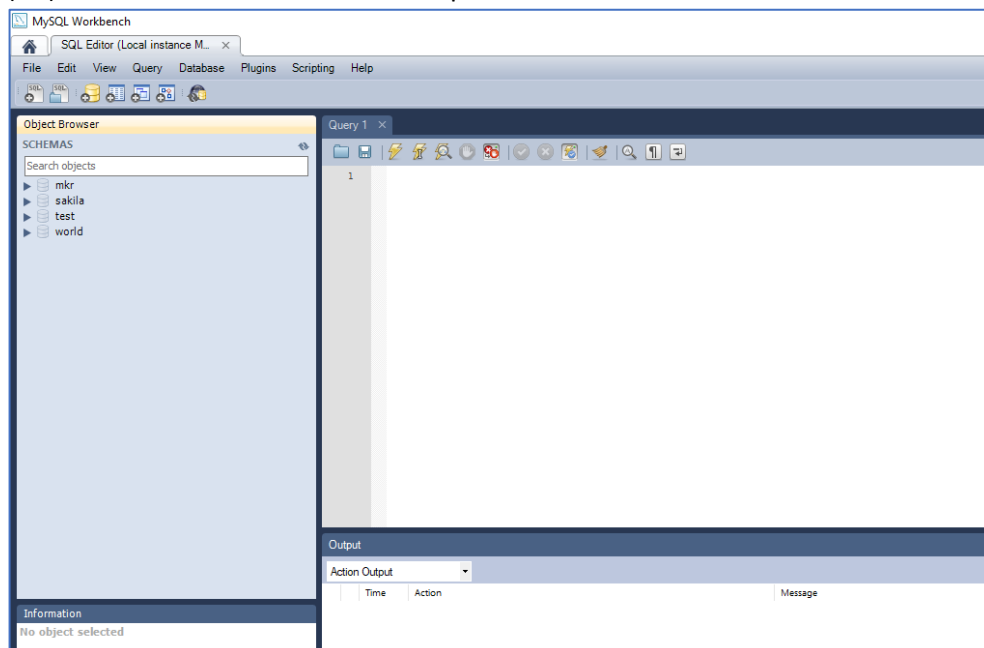


(xi) Select "Local instance MySQL55"

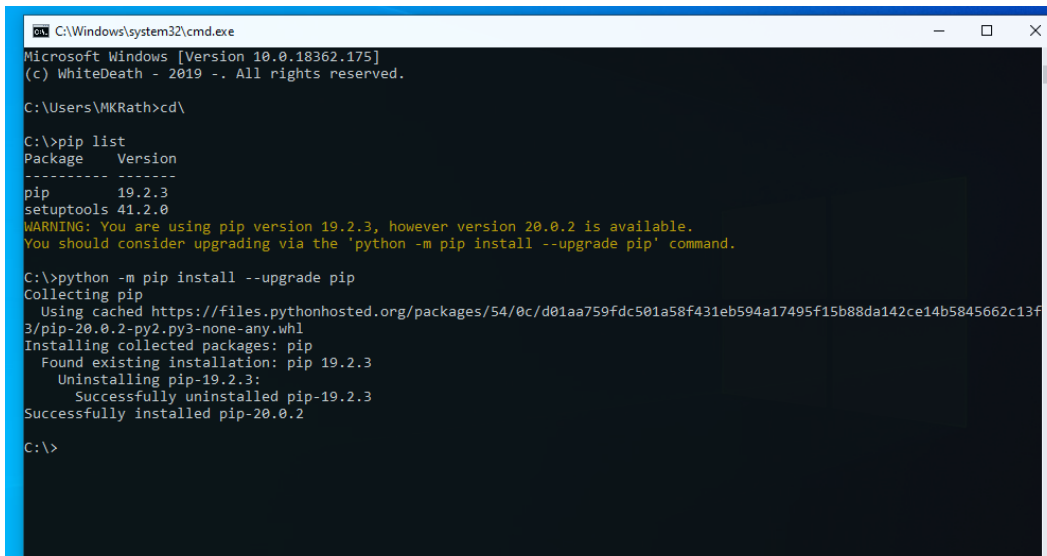


(xii) Enter the password:

(xiii) Find the Database and the Expand them to see the Tables in them



3. pip upgrade (python -m pip install --upgrade pip)



```

C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.18362.175]
(c) WhiteDeath - 2019 -. All rights reserved.

C:\Users\MKRath>cd\

C:\>pip list
Package      Version
-----
pip          19.2.3
setuptools   41.2.0
WARNING: You are using pip version 19.2.3, however version 20.0.2 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.

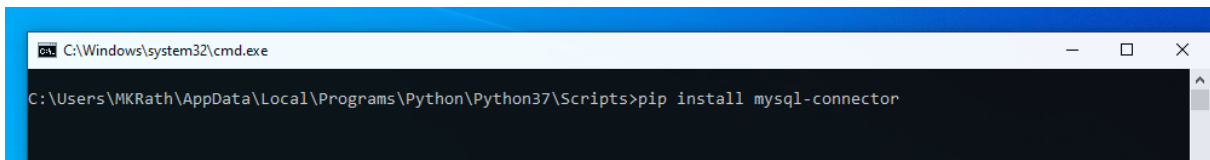
C:\>python -m pip install --upgrade pip
Collecting pip
  Using cached https://files.pythonhosted.org/packages/54/0c/d01aa759fdc501a58f431eb594a17495f15b88da142ce14b5845662c13f3/pip-20.0.2-py2.py3-none-any.whl
Installing collected packages: pip
  Found existing installation: pip 19.2.3
    Uninstalling pip-19.2.3:
      Successfully uninstalled pip-19.2.3
Successfully installed pip-20.0.2

C:\>
  
```

Python connection

Step-1: (once) Run this in command-prompt

pip install mysql-connector-python

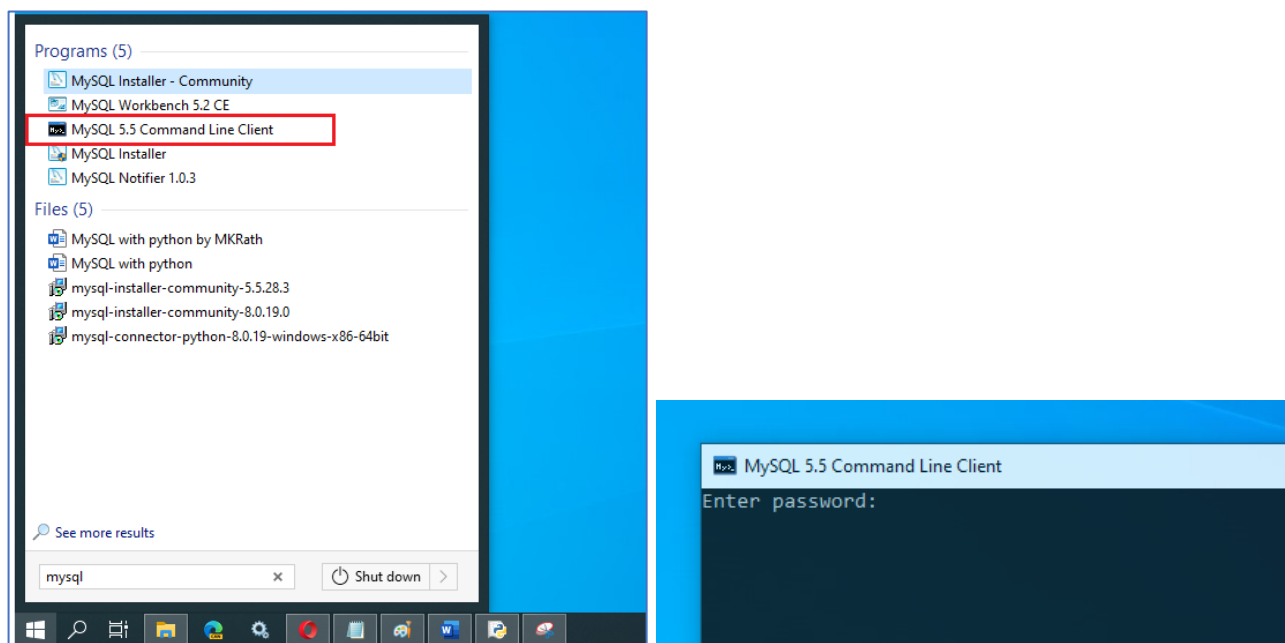


```

C:\Windows\system32\cmd.exe

C:\Users\MKRath\AppData\Local\Programs\Python\Python37\Scripts>pip install mysql-connector
  
```

Step-2: start the MySQL client & enter the password and Don't close next screen (Let it run in the background)



Step-5: Creating a Table (e.g. employee)

```
import mysql.connector

db_connection = mysql.connector.connect(host='localhost',
                                       user='root',
                                       passwd='@2000',
                                       database='mkr')

mycursor = db_connection.cursor()

mycursor.execute("CREATE TABLE employee (ename VARCHAR(20), edesg VARCHAR(20), salary VARCHAR(20))") #run this once

mycursor.execute("SHOW TABLES")

for x in mycursor:
    print(x)
```

Step-6: Insert row(s) Into Table

```
sql = "INSERT INTO employee (ename, edesg, salary) VALUES (%s, %s, %s)"
val = ("Pradeep", "Clerk", "52000")
mycursor.execute(sql, val)

db_connection.commit()

print(mycursor.rowcount, "record inserted.")
```

Step-6: Table Content

```
#Listing the records of the above Table
mycursor.execute("SELECT * FROM employee")

myresult = mycursor.fetchall()

for x in myresult:
    print(x)
```

*Composed by:
Manas Kumar Rath,
KIIT-DU, Bhubaneswar*