Connector MySQL with Python Programming Language

Firstly set a virtual file ,

* pip install virtualenv
* virtualenv venv
* .\venv\Scripts\activate

pip install mysql-connector-python

Connecting code with python

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| ./test.py  *import* mysql.connector  mydb = mysql.connector.connect(      host = "localhost",      user = "root",      passwd = "an1223"  )  print(mydb)  *if*(mydb.is\_connected()):      print("Connected to MySQL databse successfull")  . |

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| ./create\_database.py  *import* mysql.connector  mydb = mysql.connector.connect(      host = "localhost",      user = "root",      passwd = "an1223"  )  print(mydb)  db\_name = "python\_test\_db"  *# A cursor is used to execute SQL queries*  mycursor = mydb.cursor()  query = "CREATE DATABASE "+ db\_name  mycursor.execute(query)  . | . | ./create\_table.py  *import* mysql.connector  db\_name = "python\_test\_db"  mydb = mysql.connector.connect(      host = "localhost",      user = "root",      passwd = "an1223",      database = db\_name  )  mycursor = mydb.cursor()  query ="""      CREATE TABLE python\_table      (          roll INT PRIMARY KEY,          name VARCHAR(40)      )  """  mycursor.execute(query)  print('mySQL Query successfull...')  . |

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| ./insert\_data.py  *import* mysql.connector  db\_name = "python\_test\_db"  mydb = mysql.connector.connect(      host = "localhost",      user = "root",      passwd = "an1223",      database = db\_name  )  mycursor = mydb.cursor()  query ="""        INSERT INTO python\_table(roll,name)      VALUES(101,'AN Mamun')  """  mycursor.execute(query)  mydb.commit()  print('mySQL Query successfull...')  . |  | ./update\_date.py  *import* mysql.connector  db\_name = "python\_test\_db"  mydb = mysql.connector.connect(      host = "localhost",      user = "root",      passwd = "an1223",      database = db\_name  )  mycursor = mydb.cursor()  query ="""      UPDATE python\_table      SET name = 'Hello AN Mamun'      WHERE name LIKE 'AN%'  """  mycursor.execute(query)  mydb.commit()  print('mySQL Query successfull...')  . |

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| . printing row value in termainal  *import* mysql.connector  db\_name = "dummydb"  mydb = mysql.connector.connect(      host = 'localhost',      user = 'root',      password='an1223',      database = db\_name  )  *if* mydb.is\_connected():      print("Successfully dummydb connected")  mycursor = mydb.cursor()  query = """      SELECT MAX(salary), MIN(salary)      FROM employees  """  mycursor.execute(query)  result = mycursor.fetchall()  *for* row *in* result:  *# print(row)*      mx = row[0]      mn = row[1]      print(mx," ", mn,"\n")  . |  | . try ,except error handling  mycursor = mydb.cursor()  query = """        SELECT SUM(salary)      FROM employees      SELECT MAX(salary), MIN(salary)      FROM employees  """  *try*:      mycursor.execute(query)  *except* mysql.connector.Error *as* wrong:      print(*f*"Hay! Error :{wrong}")  . |

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| .another way insert query  mycursor.execute(query)  sql = "””  INSERT INTO employees (name, pos,salary)  VALUES (%s, %s, %s)"  values = ("John Doe", "SoftEng", 7500.0)  mycursor.execute(sql, values)  . |  | .bulk insert and update query  sql = """  INSERT INTO employees (name, salary)  VALUES (%s, %s)  """  values = [("John", 50000),  ("Anna", 60000),  ("Tom", 70000)]  mycursor.executemany(sql, values)  . |
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