

Install mysql connector python

- Using pycharm
 - File => settings => python interpreter => + => mysql-connector => install
-

Create First Database

```
import mysql.connector

# connect to the server
myconn = mysql.connector.connect(
    host = "localhost",
    user = "root",
    passwd = "toor",
)

# determine the cursor that used to make mysql operation in python
mycursor = myconn.cursor()

# execute any operation using the cursor
# mycursor.execuet('')

import mysql.connector
try:
    # connect to the database
    conn = mysql.connector.connect(
        host = 'localhost',
        user = 'root',
        passwd = ''
    )
    # determine the cursor that make all operations
    mycur = conn.cursor()

    # create database
    mycur.execute('CREATE DATABASE customers')

except:
    # if case any error will print this message
    print(f'there is an error: {mysql.connector.Error}')
```

make database accept Arabic language

```
import mysql.connector
try:
    # connect to the server
    conn = mysql.connector.connect(
        host = 'localhost',
        user = 'root',
        passwd = ''
    )
    # determine the cursor that make all operations
    mycur = conn.cursor()
```

```

# create database
# accept arabic language
mycur.execute('CREATE DATABASE customer DEFAULT CHARACTER SET utf8 DEFAULT
COLLATE utf8_general_ci')

except:
    # if case any error will print this message
    print(f'there is an error: {mysql.connector.Error}')

```

Show All Databases That Available

```

import mysql.connector
try:
    # connect to the SERVER
    conn = mysql.connector.connect(
        host = 'localhost',
        user = 'root',
        passwd = ''
    )
    # determine the cursor that make all operations
    mycur = conn.cursor()

    # create database
    # accept arabic language
    mycur.execute('SHOW DATABASES')

    # print all databases that exist on the server
    for data in mycur:
        print(data)

except:
    # if case any error will print this message
    print(f'there is an error: {mysql.connector.Error}')

```

create tables & columns in databases

```

import mysql.connector
try:
    # connect to the SERVER
    conn = mysql.connector.connect(
        host = 'localhost',
        user = 'root',
        passwd = '',
        database = 'employee'      # select the database
    )
    # determine the cursor that make all operations
    mycur = conn.cursor()

    # create table "emp"
    # create column emp_id, emp_name
    mycur.execute(' CREATE TABLE emp(emp_id int primary key, emp_name varchar
(20))')

```

```
except:
    # if case any error will print this message
    print(f'there is an error: {mysql.connector.Error}')
```

insert data into table

```
import mysql.connector
try:
    # connect to the SERVER
    conn = mysql.connector.connect(
        host = 'localhost',
        user = 'root',
        passwd = '',
        database = 'employee'      # select the database
    )
    # determine the cursor that make all operations
    mycur = conn.cursor()

    # insert data in the table
    # determine the table
    mycur.execute("insert into student values(1, 'omar')")
    mycur.execute("insert into student values(2, 'hassan')")

    # to save all changes on the data
    conn.commit()

except:
    # if case any error will print this message
    print(f'there is an error: {mysql.connector.Error}')
```

update data in the table

```
import mysql.connector
try:
    # connect to the SERVER
    conn = mysql.connector.connect(
        host = 'localhost',
        user = 'root',
        passwd = '',
        database = 'employee'      # select the database
    )
    # determine the cursor that make all operations
    mycur = conn.cursor()

    # update data
    # must select the table that exist on the database
    mycur.execute('''update student set name = 'mona' where id = 1 ''')

    # to save all changes on the data
    conn.commit()

except:
    # if case any error will print this message
    print(f'there is an error: {mysql.connector.Error}')
```

delete data from the table

```
import mysql.connector
try:
    # connect to the SERVER
    conn = mysql.connector.connect(
        host = 'localhost',
        user = 'root',
        passwd = '',
        database = 'employee'      # select the database
    )
    # determine the cursor that make all operations
    mycur = conn.cursor()

    # delete from the table
    mycur.execute('''
        delete from student where id=1
    ''')

    # to save all changes on the data
    conn.commit()

except:
    # if case any error will print this message
    print(f'there is an error: {mysql.connector.Error}')
```

select data from the table

```
import mysql.connector
try:
    # connect to the SERVER
    conn = mysql.connector.connect(
        host = 'localhost',
        user = 'root',
        passwd = '',
        database = 'employee'      # select the database
    )
    # determine the cursor that make all operations
    mycur = conn.cursor()

    # select data from the table
    # all data that exist on the table
    mycur.execute('SELECT * FROM student')
    for x in mycur:
        print(x)

    # to save all changes on the data
    conn.commit()

except:
    # if case any error will print this message
    print(f'there is an error: {mysql.connector.Error}')
```