## mysql and python connector package

!pip install mysql-connector-python

## we will use conn alias to connect to sql

import mysql.connector as conn

## connecting to local mysql-workbench

mydb = conn.connect(host = 'localhost',user = ' ',password = ' ')

## cursor is a pointer to where system will start reading or writing

cursor = mydb.cursor()

## IT will execute the sql queries to be executed

cursor.execute("show databases")

## fetchall will let us see all the databases

cursor.fetchall()

## creating a new database

cursor.execute("create database SQL\_Connect")

cursor.execute("show databases")

cursor.fetchall()

## creating a new table inide the database

cursor.execute('create table sql\_connect.Employee(ID int,Name varchar(20),Dept\_ID int,Salary int(10),Location varchar(30))')

## we need to initialize which database we need to use

cursor.execute('use sql\_connect')

cursor.execute('show tables')

cursor.fetchall()

# inserting values into the new table

cursor.execute('insert into sql\_connect.Employee values(1,"rohan",101,200000,"India")')

cursor.execute('insert into sql\_connect.Employee values(2,"mohan",110,600000,"India")')

cursor.execute('insert into sql\_connect.Employee values(3,"sohan",111,900000,"India")')

mydb.commit()

cursor.execute('select \* from sql\_connect.Employee')

cursor.fetchall()

ls

## reading the glass\_data from the directory

file = open('glass\_data')

# Read at most n characters from stream.

file.read()

## we need to import csv package to read file in csv format

import csv

with open('glass\_data','r') as f:

data = csv.reader(f,delimiter = '\n') #csv.reader is iterable

print(data) ##csv.reader is iterable

for i in data:

print(i)

## creating the glassdata table

cursor.execute('create table sql\_connect.glassdata(col1 INT(10),col2 float(10,5),col3 float(10,5),col4 float(10,5),col5 float(10,5),col6 float(10,5),col7 float(10,5),col8 float(10,5),col9 float(10,5),col10 float(10,5),col11 float(10,5))')

## inserting the whole file into the table

import csv

with open('glass\_data','r') as f:

data = csv.reader(f,delimiter = '\n')

for i in data:

print(type(i[0])) ## we should insert the string datatype into table not the list

cursor.execute('insert into sql\_connect.glassdata values({values})'.format(values = ((i[0]))))

cursor.execute('select \* from sql\_connect.glassdata')

cursor.fetchall()