***MINI PROJECT 2***

***1)Create a Python application that creates any MySQL database (like employee database, college database) and performs create, read, update, and delete (CRUD) operations using Python's MySQL Connector.***

***PROGRAM:***

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="Kani@2001")

print(mydb)

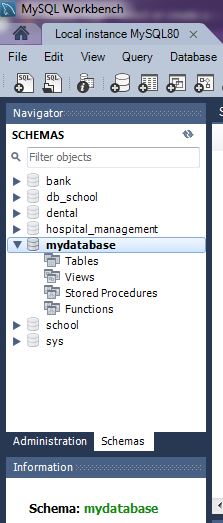
mycursor=mydb.cursor()

mycursor.execute("CREATE DATABASE mydatabase")

***OUTPUT IN PYTHON :***

**<mysql.connector.connection.MySQLConnection object at 0x00000000051F3DF0>**

***OUTPUT IN SQL:***

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***Here we able to see that the database named mydatabase had been created.***

***CRUD OPERATIONS:***

***# 1) CREATE OPERATION:***

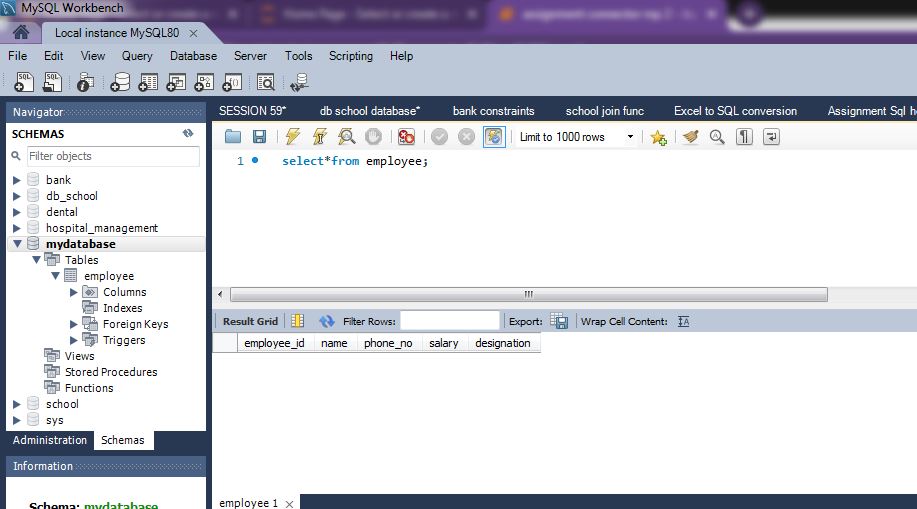
import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="Kani@2001",database= "mydatabase")

mycursor=mydb.cursor()

mycursor.execute("create table employee(employee\_id int,name varchar(30),phone\_no int,salary int ,designation varchar(30))")

***OUTPUT IN SQL:***



***Here we able to see that the table named employee with columns employee\_id,name,phone\_no,salary and designation had been created.***

|  |  |
| --- | --- |
|  |  |

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="Kani@2001",database= "mydatabase")

mycursor=mydb.cursor()

mycursor.execute("show tables")

for tb in mycursor:

print(tb)

***OUTPUT:***

**('employee',)**

***# 2)READ OPERATION:***

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="Kani@2001",database= "mydatabase")

mycursor=mydb.cursor()

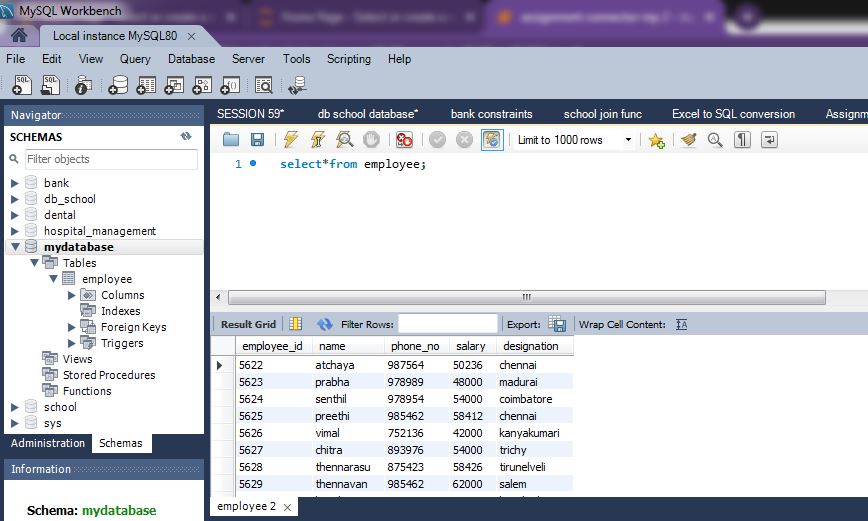
formula = "Insert into *employee(employee\_id,name,phone\_no,salary,designation) values(%s,%s,%s,%s,%s)"*

employees =[(5622,"atchaya",987564,50236,"chennai"),(5623,"prabha",978989,48000,"madurai"),(5624,"senthil",978954,54000,"coimbatore"),(5625,"preethi",985462,58412,"chennai"),(5626,"vimal",752136,42000,"kanyakumari"),(5627,"chitra",893976,54000,"trichy"),(5628,"thennarasu",875423,58426,"tirunelveli"),(5629,"thennavan",985462,62000,"salem"),(5630,"kavitha",958746,52550,"karaikudi")]

mycursor.executemany(formula,employees)

mydb.commit()

***OUTPUT IN SQL:***

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***Here we able to see that the value for the five columns had been inserted.***

***#fetchall()***

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="Kani@2001",database= "mydatabase")

mycursor=mydb.cursor()

mycursor.execute("select \* from employee")

myresult = mycursor.fetchall()

for row in myresult:

print(row)

***OUTPUT:***

**(5622, 'atchaya', 987564, 50236, 'chennai')**

**(5623, 'prabha', 978989, 48000, 'madurai')**

**(5624, 'senthil', 978954, 54000, 'coimbatore')**

**(5625, 'preethi', 985462, 58412, 'chennai')**

**(5626, 'vimal', 752136, 42000, 'kanyakumari')**

**(5627, 'chitra', 893976, 54000, 'trichy')**

**(5628, 'thennarasu', 875423, 58426, 'tirunelveli')**

**(5629, 'thennavan', 985462, 62000, 'salem')**

**(5630, 'kavitha', 958746, 52550, 'karaikudi')**

***#fetchone()***

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="Kani@2001",database= "mydatabase")

mycursor=mydb.cursor()

mycursor.execute("select employee\_id from employee")

myresult1=mycursor.fetchall()

for row in myresult1:

print("result 1 :",row)

mycursor.execute("select name from employee")

myresult2=mycursor.fetchone()

for row in myresult2:

print("result 2:",row)

***OUTPUT:***

**result 1 : (5622,)**

**result 1 : (5623,)**

**result 1 : (5624,)**

**result 1 : (5625,)**

**result 1 : (5626,)**

**result 1 : (5627,)**

**result 1 : (5628,)**

**result 1 : (5629,)**

**result 1 : (5630,)**

**result 2: atchaya**

**# 3) UPDATE OPERATION:**

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="Kani@2001",database= "mydatabase")

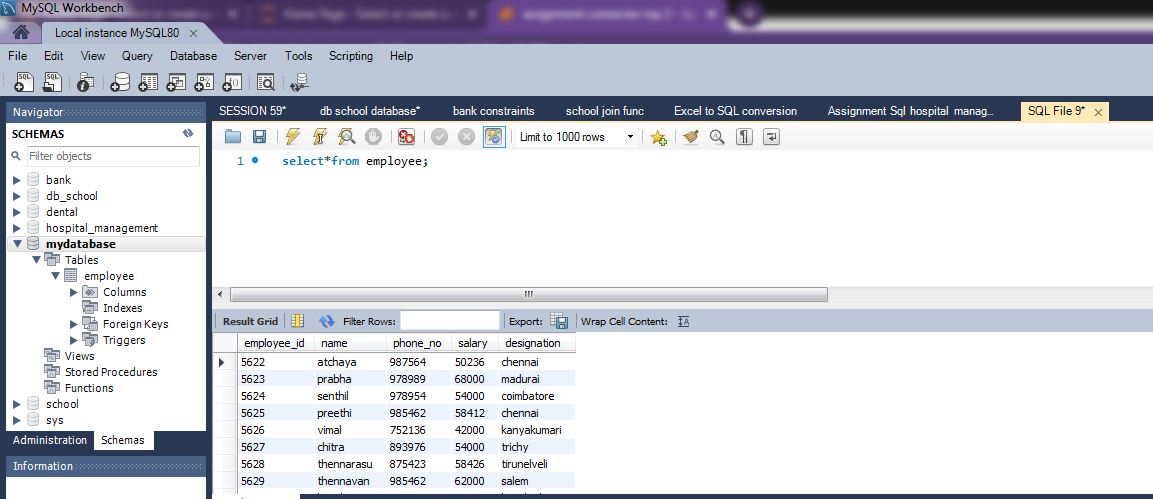
mycursor=mydb.cursor()

updation="Update employee SET salary =68000 WHERE employee\_id=5623"

mycursor.execute(updation)

mydb.commit()

***OUTPUT IN SQL:***

******

***Here in this output we able to see that the salary of employee with employee\_id 5623(prabha) has been updated to 68000 from 48000.***

***# 4)DELETE OPERATION:***

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="Kani@2001",database= "mydatabase")

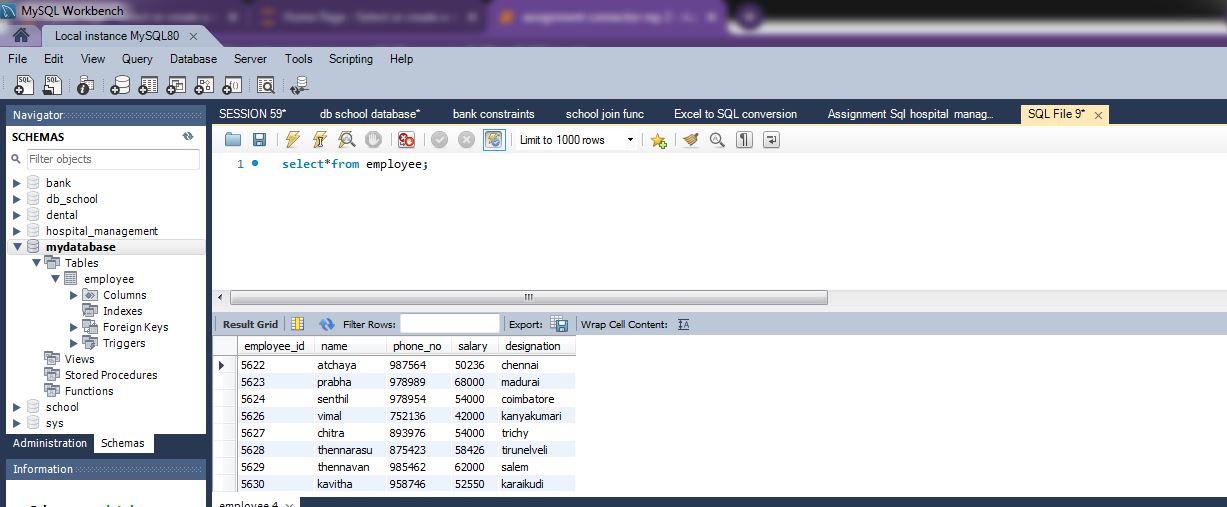
mycursor=mydb.cursor()

deletion="DELETE FROM employee WHERE name='preethi'"

mycursor.execute(deletion)

mydb.commit()

***OUTPUT IN SQL:***

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***Here in this output we able to see that the employee details of the name preethi had been deleted.***