

Full Stack Application Development with MS Azure Cloud

Module 3 - Back-End Development & Integration

Lab Practical Manual

Unit 3 – Data Persistence and Database Integration

Topic: Python - MYSQL Connector - Solved question

Lab 3: To create an employee management system using Python and MySQL

Step 1) Download and install MySQL8

<https://dev.mysql.com/downloads/windows/installer/8.0.html>

Step 2) Run MySQL workbench

Step 3) Open the command line terminal

```
>cmd
```

Step 4) Install MySQL connector

```
>python -m pip install mysql-connector-python
```

Step 5) Test mysql connector

```
>import mysql.connector
```

Step 6) Create a .py file and write code and execute the respective .py file from the command line

```
cmd
```

```
cd desktop
```

```
python filename.py
```

```
//Create Database
```

```
import mysql.connector
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="Yogesh786@"
)
mycursor = mydb.cursor()
mycursor.execute("CREATE DATABASE mydatabase")
print(mydb)
```

//Create table

```
mycursor.execute("CREATE TABLE customers (name VARCHAR(255), address VARCHAR(255))")
```

//Insert employees

```
sql = "INSERT INTO customers (name, address) VALUES (%s, %s)"
val = ("John", "Highway 21")
mycursor.execute(sql, val)
mydb.commit()
print(mycursor.rowcount, "record inserted.")
```

//Display employees

```
mycursor.execute("SELECT * FROM customers")
myresult = mycursor.fetchall()
for x in myresult:
    print(x)
```

//Display name of employees

```
mycursor.execute("SELECT name FROM customers")
myresult = mycursor.fetchall()
for x in myresult:
    print(x)
```

//Delete employees

```
sql = "DELETE FROM customers WHERE address = 'Highway 21'"
mycursor.execute(sql)
mydb.commit()
print(mycursor.rowcount, "record(s) deleted")
```

Unsolved Question

Lab 4: To create a library management system using Python and MySQL and perform CRUD operations