Day 24 (04/09/23): Sql with python:

Python and mysql Database:
Install a package using code in terminal (pip install mysql-connector-python)
Pip install mysql connector

#debugging (adding a print to indicate the state) must be used to identify the running of the code.

Connect Sql with Python:
Code:

```
import mysql.connector
mydb=mysql.connector.connect(
    host="localhost",
    user="root",
    password="12345"
)
print(mydb)
```

Output:
<mysql.connector.connection.MySQLConnection object at 0x000001A84206AF50>

Creating and storing data in database:
Code:

```
mycursor=mydb.cursor()
sql="insert into python_students (firstname,lastname,fees,adress) values
(%s,%s,%s,%s)"
val=('Mano','Karan','Paid','Chennai')
mycursor.execute(sql,val)
mydb.commit() #to save data
print("Data Saved Successfully!!!")
```

if user input is used: {

```
sql="insert into python_students (firstname,lastname,fees,adress) values
(%s,%s,%s,%s)"
firstname=input("Enter your firstname: ")
lastname=input("Enter your lastname: ")
fees=input("Enter your feesZV detail: ")
adress=input("Enter your adress: ")
val=(firstname,lastname,fees,adress)
```

}

View the data from database:
Code:

```
mycursor.execute("select * from python_students")
myresult=mycursor.fetchall()
for i in myresult:
    print(i)
    print(i[0:2])
```

Output:
('Mano', 'Karan', 'Paid', 'Chennai')
('Mano', 'Karan')

Update the data from database:
Update a specific data from database

Code:

```
sql="update python_students set fees='Not Paid' where firstname='Vaishnav'"
mycursor.execute(sql)
mydb.commit
print("Updated successfully")
```

Delete:

Code:

```
sql="delete from python_students where adress='Chennai'"
mycursor.execute(sql)
mydb.commit()
print("Deleted Successfully")
```

if user input is needed:

Code:

```
columnname=input("Enter the Column you want to delete: ")
delete_col=input("Enter the specific data to be delete from the column: ")
sql=f"delete from python_students where {columnname}='{delete_col}'"
mycursor.execute(sql)
mydb.commit()
print("Deleted Successfully")
```