

```
CREATE DATABASE studentdb;  
USE studentdb;
```

```
CREATE TABLE students (  
  id INT AUTO_INCREMENT PRIMARY KEY,  
  name VARCHAR(100),  
  age INT,  
  course VARCHAR(50)  
);
```

```
import mysql.connector
```

```
conn = mysql.connector.connect(  
    host = "localhost",  
    user = "root",  
    password = "test123",  
    database = "studentdb"  
)  
cursor = conn.cursor()
```

```
def add_students(name,age,course):  
    sql = "INSERT INTO students(name,age,course) VALUES (%s, %s, %s)"  
    values = (name,age,course)  
    cursor.execute(sql,values)  
    conn.commit()  
    print("students added succesfully")
```

```
def view_students():  
    cursor.execute("SELECT * FROM STUDENTS")  
    for row in cursor.fetchall():  
        print(row)
```

```
def update_students(student_id, new_name):  
    sql = "UPDATE students SET name = %s WHERE id = %s"  
    values = ( new_name, student_id)  
    cursor.execute(sql,values)  
    conn.commit()  
    print("students updated successfully")
```

```
def delete_students(student_id):  
    sql = "DELETE FROM students WHERE id = %s"  
    cursor.execute(sql,[student_id]) # --> note the comma  
    conn.commit()
```

```
print("students data deleted successfully")

while True:
    print("\n=== student database menu ===")
    print("1. add student")
    print("2. view students")
    print("3. update student")
    print("4. delete student")
    print("5. exit")

    choice = input("enter your choice: ")

    if choice == "1":
        name = input("enter name: ")
        age = input("enter age: ")
        course = input("enter course: ")
        add_students(name,age,course)

    elif choice == "2":
        view_students()

    elif choice == "3":
        student_id = int(input("enter student id to update: "))
        new_name = input("enter new name: ")
        update_students(student_id, new_name)

    elif choice == "4":
        student_id = int(input("enter student id to delete: "))
        delete_students(student_id)

    elif choice == "5":
        break

    else :
        print("invalid choice")

cursor.close()
conn.close()
```