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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 successfully")

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()
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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()
```