Parth Gajare AI&DS 15

## 0.0.1 Importing

```
[ ]: import sqlite3
```

## 0.0.2 Connecting to Database

```
[]: connection = sqlite3.connect ('./genericDatabase.db')
cursor = connection.cursor ()
```

## 0.0.3 Create Table

# 1 CRUD Operations

## 1.0.1 Create (Insertion)

```
Record added successfully!
Record added successfully!
```

#### 1.0.2 Read (Retrieve)

```
[]: def read_students():
    cursor.execute('SELECT * FROM students')
    rows = cursor.fetchall()
    print("Student Records:")
    for row in rows:
        print(row)

read_students()
```

```
Student Records:
(1, 'Griffith', 20)
(2, 'Guts', 22)
```

## 1.0.3 Update

```
[]: def update_student_age(student_id, new_age):
    cursor.execute('''
    UPDATE students
    SET age = ?
    WHERE id = ?
    ''', (new_age, student_id))
    connection.commit()
    print("Student age updated successfully!")

update_student_age(1, 21) # Updating Alice's age to 21
read_students()
```

```
Student age updated successfully!
Student Records:
(1, 'Griffith', 21)
(2, 'Guts', 22)
```

## 1.0.4 Delete

```
[]: def delete_student(student_id):
    cursor.execute('''
    DELETE FROM students
    WHERE id = ?
    '''', (student_id,))
    connection.commit()
    print("Student deleted successfully!")

delete_student(2) # Deleting Bob's record
```

## read\_students()

Student deleted successfully!
Student Records:
(1, 'Griffith', 21)

## 1.0.5 Closing the database connection

[]: connection.close ()