CRUD Operation with SQLite and Python

https://sqlitebrowser.org



Downloads

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Windows

Our latest release (3.12.2) for Windows:

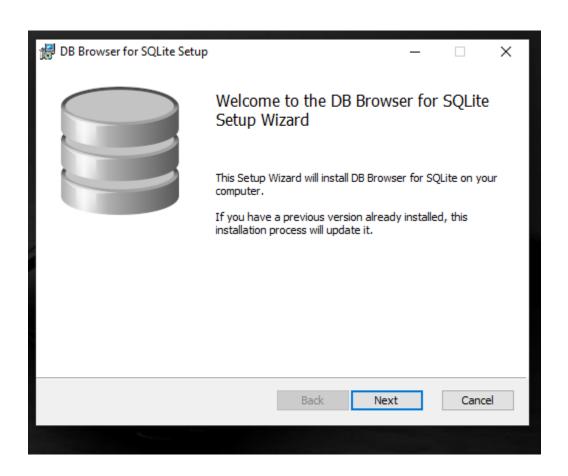
- DB Browser for SQLite Standard installer for 32-bit Windows
- DB Browser for SQLite .zip (no installer) for 32-bit Windows
- DB Browser for SQLite Standard installer for 64-bit Windows
- DB Browser for SQLite .zip (no installer) for 64-bit Windows

Windows PortableApp

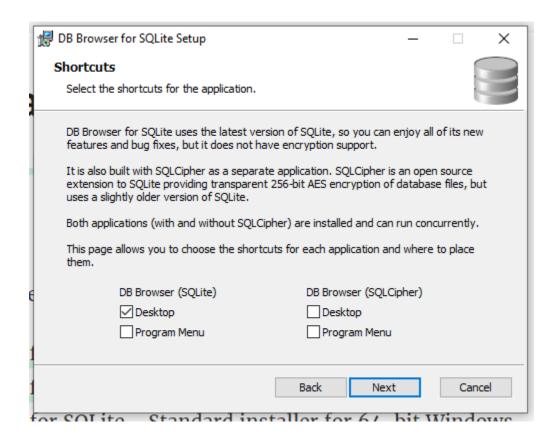
- DB Browser for SQLite .zip (no
- DB Browser for SQLite Standard
- DB Browser for SQLite .zip (no

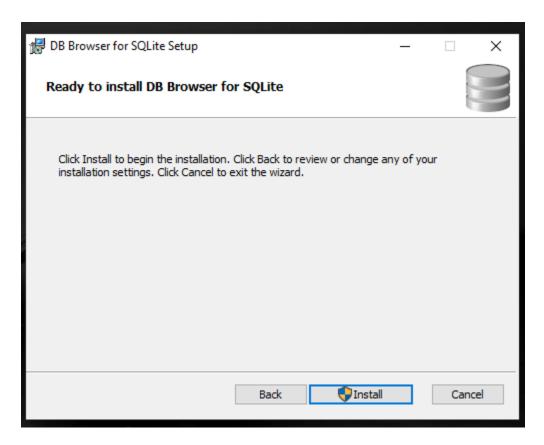
Windows PortableApp

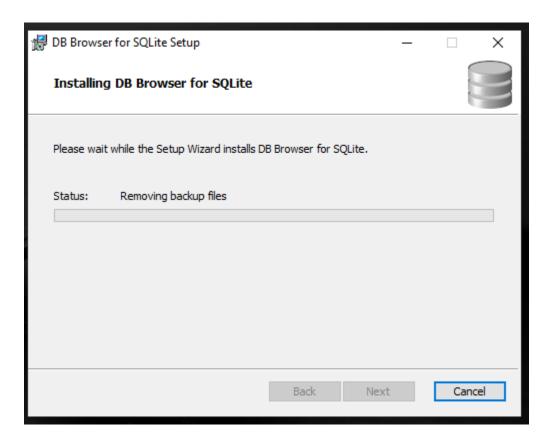


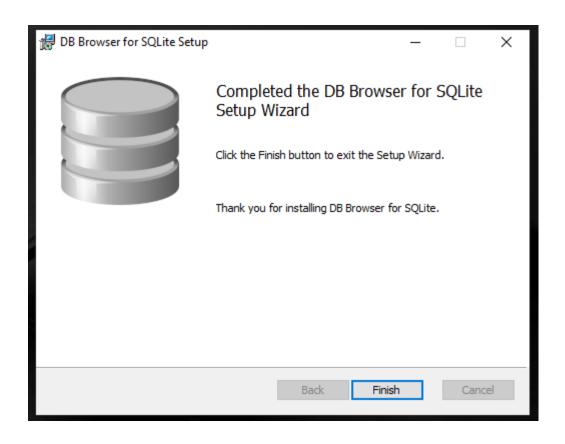


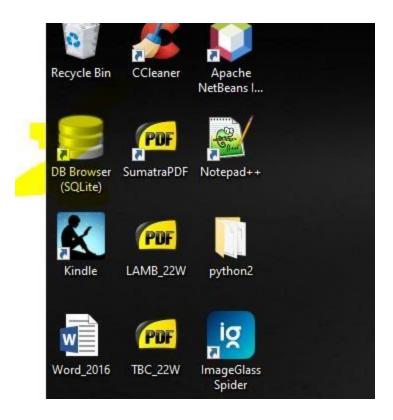


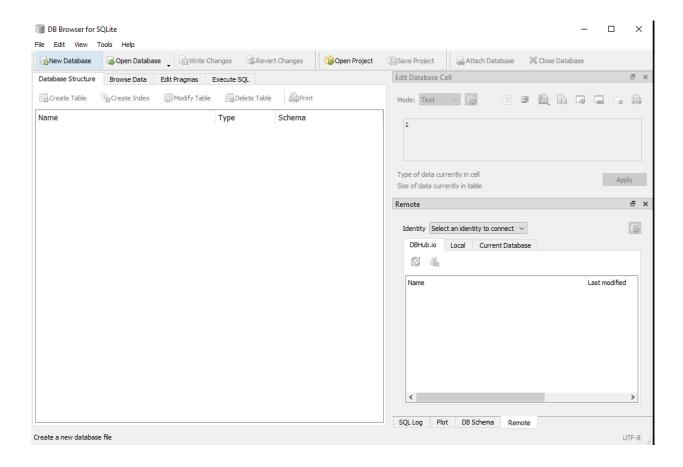


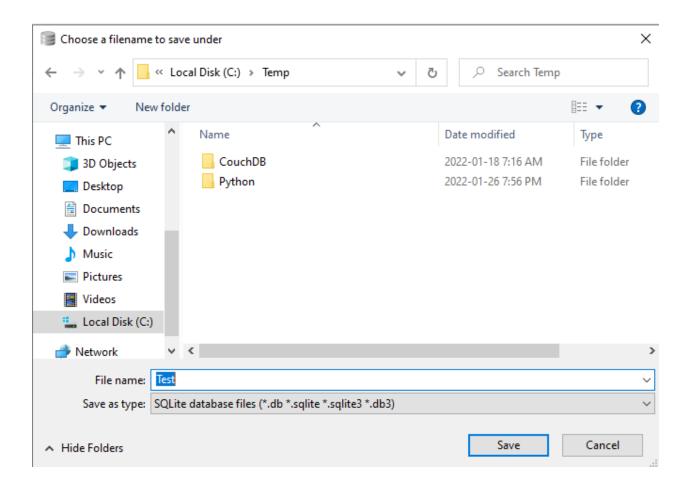


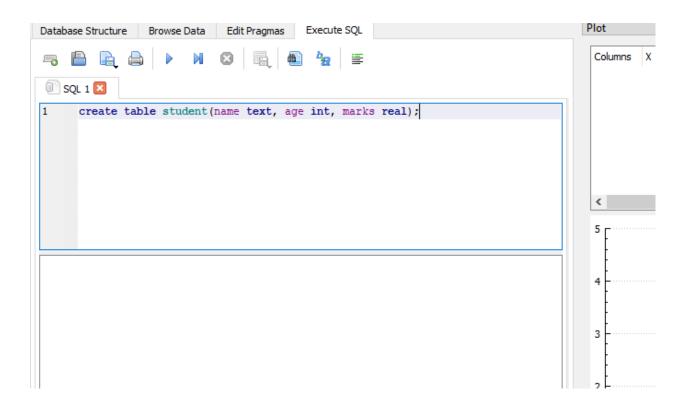


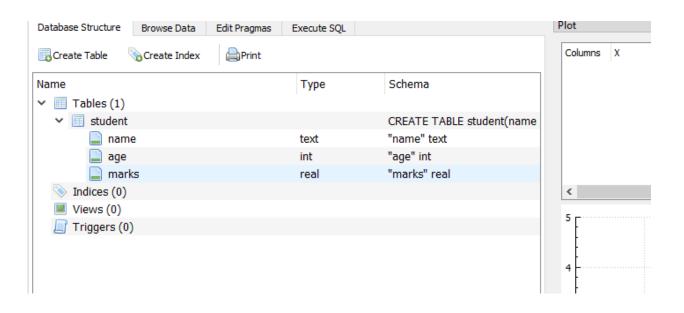


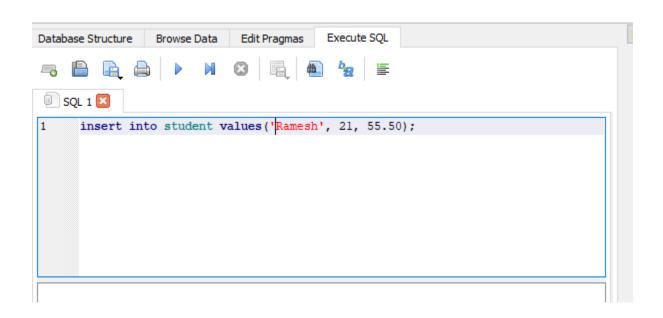


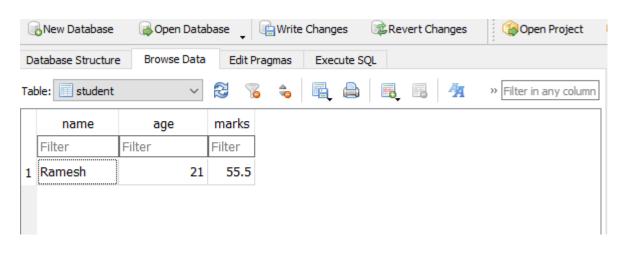


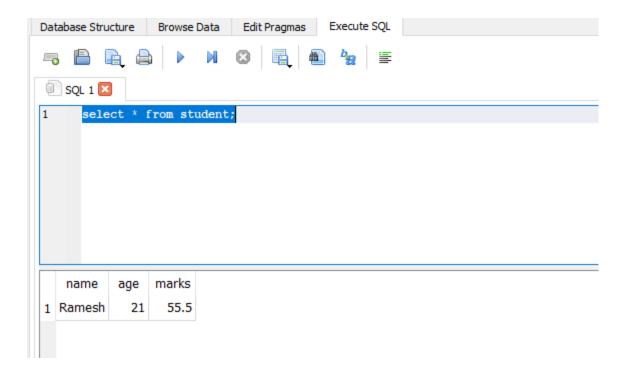




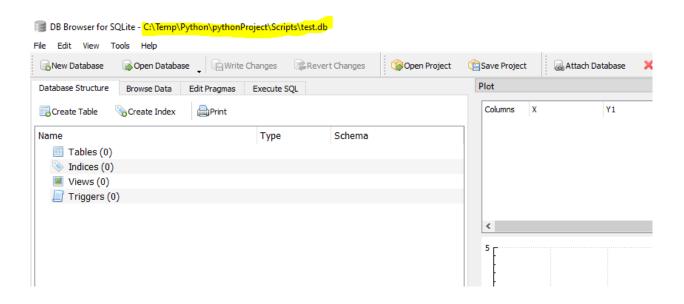




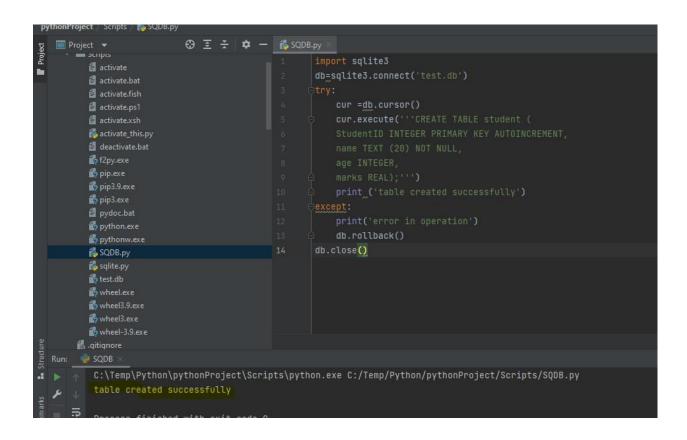




If you want to create a table using python

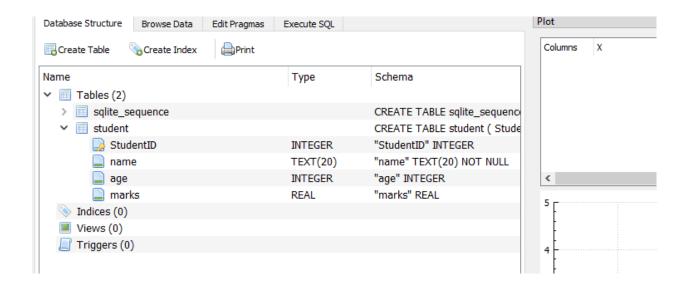


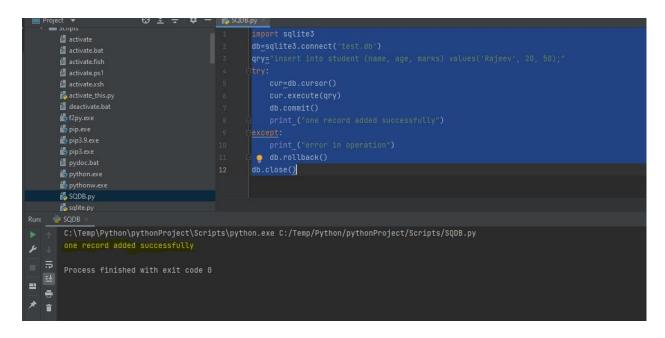
```
pythonProject > Scripts > # SQDB.py
   ■ Project ▼
                                                             db=sqlite3.connect('test.db')
          ₫ activate.bat
          activate.fish
          activate.ps1
          activate.xsh
          💑 activate_this.py
          deactivate.bat
          👣 f2py.exe
          👣 pip.exe
          pip3.9.exe
          pip3.exe
          python.exe
          pythonw.exe
                                                             db.close()
          SQDB.py
          sqlite.py
          test.db
          wheel.exe
          wheel3.9.exe
          wheel3.exe
          wheel-3.9.exe
        🚜 .gitignore
```

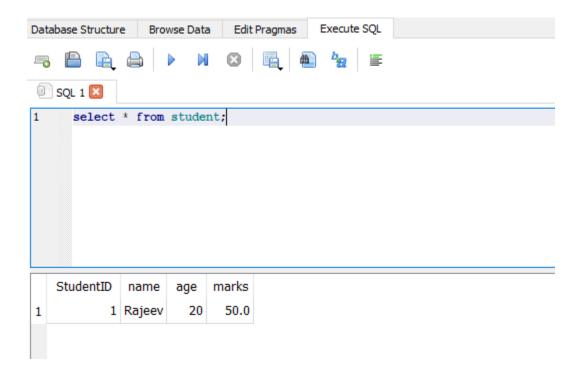


Insert a Record (Create)

Once again, the execute() method of the cursor object should be called with a string argument representing the INSERT query syntax. We have created a student table having three fields: name, age and marks. The string holding the INSERT query is defined as:







Retrieve Records (Read)

When the query string holds a SELECT query, the execute() method forms a result set object containing the records returned. Python DB-API defines two methods to fetch the records:

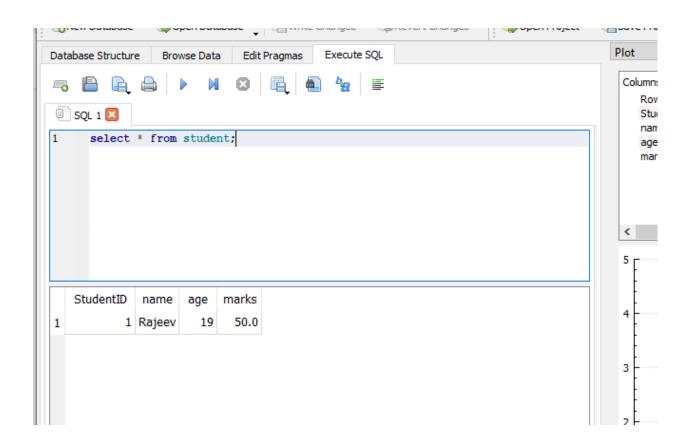
- 1. fetchone(): Fetches the next available record from the result set. It is a tuple consisting of values of each column of the fetched record.
- 2. fetchall(): Fetches all remaining records in the form of a list of tuples. Each tuple corresponds to one record and contains values of each column in the table.

```
activate
     activate.bat
     activate.fish
                                             cur=db.cursor()
      activate.ps1
      activate.xsh
      activate_this.py
      f2py.exe
      pip.exe
      pip3.9.exe
                                           🍦 🍨 print_(record)
      pip3.exe
                                            db.close()
      pydoc.bat
      python.exe
      pythonw.exe
     SQDB.py
     👗 sqlite.py
C:\Temp\Python\pythonProject\Scripts\python.exe C:/Temp/Python/pythonProject/Scripts/SQDB.py
```

Update a Record

The query string in the execute() method should contain an UPDATE query syntax. To update the value of 'age' to 17 for 'Rajeev', define the string as below:

```
= SCRIPES
      activate
                                                 db=sqlite3.connect('test.db')
      activate.bat
                                                 qry="update student set age=? where name=?;"
      activate.fish
      activate.ps1
                                                     cur=db.cursor()
       activate.xsh
                                                  cur.execute(qry, (19, 'Rajeev'))
      activate_this.py
      deactivate.bat
       f2py.exe
       pip.exe
       pip3.9.exe
       pip3.exe
                                                     db.rollback()
      pydoc.bat
                                                 db.close()
       python.exe
      pythonw.exe
      🚜 SQDB.py
      sqlite.py
Run: 🛑 SQDB
       C:\Temp\Python\pythonProject\Scripts\python.exe C:/Temp/Python/pythonProject/Scripts/SQDB.py
       record updated successfully
       Process finished with exit code 0
```



Delete a Record

The query string should contain the DELETE query syntax. For example, the below code is used to delete 'Bill' from the student table.

