



DEPARTAMENTO REGIONAL DE
PERNAMBUCO

Banco de Dados

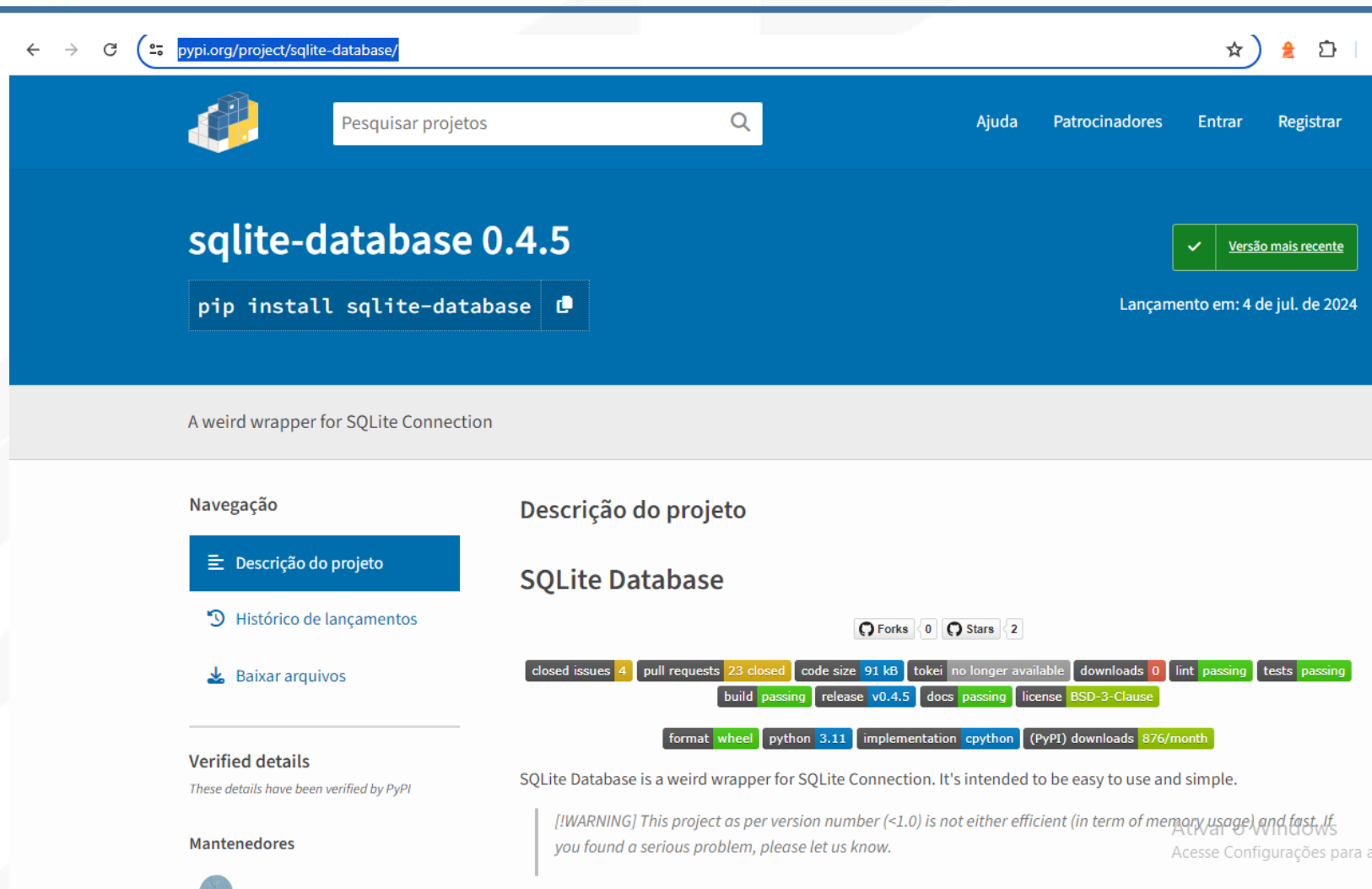
Inst: Esp. Luciana Oliveira



Como usar o SQLITE no Python







The screenshot shows the PyPI project page for 'sqlite-database'. The page is titled 'sqlite-database 0.4.5' and includes a search bar, navigation links, and a description of the project. The project is described as 'A weird wrapper for SQLite Connection'. The page also features a sidebar with navigation links and a section for verified details.

sqlite-database 0.4.5

`pip install sqlite-database`

Lançamento em: 4 de jul. de 2024

A weird wrapper for SQLite Connection

Navegação

- Descrição do projeto
- Histórico de lançamentos
- Baixar arquivos

Descrição do projeto

SQLite Database

Forks 0 Stars 2

closed issues 4 pull requests 23 closed code size 91 kB token no longer available downloads 0 lint passing tests passing build passing release v0.4.5 docs passing license BSD-3-Clause format wheel python 3.11 implementation cpython (PyPI) downloads 876/month

SQLite Database is a weird wrapper for SQLite Connection. It's intended to be easy to use and simple.

[!WARNING] This project as per version number (<1.0) is not either efficient (in term of memory usage) and fast. If you found a serious problem, please let us know.

<https://pypi.org/project/sqlite-database/>

Baixar o PIP.Install sqlite database

```
cmd Prompt de Comando
Microsoft Windows [versão 10.0.19045.4651]
(c) Microsoft Corporation. Todos os direitos reservados.

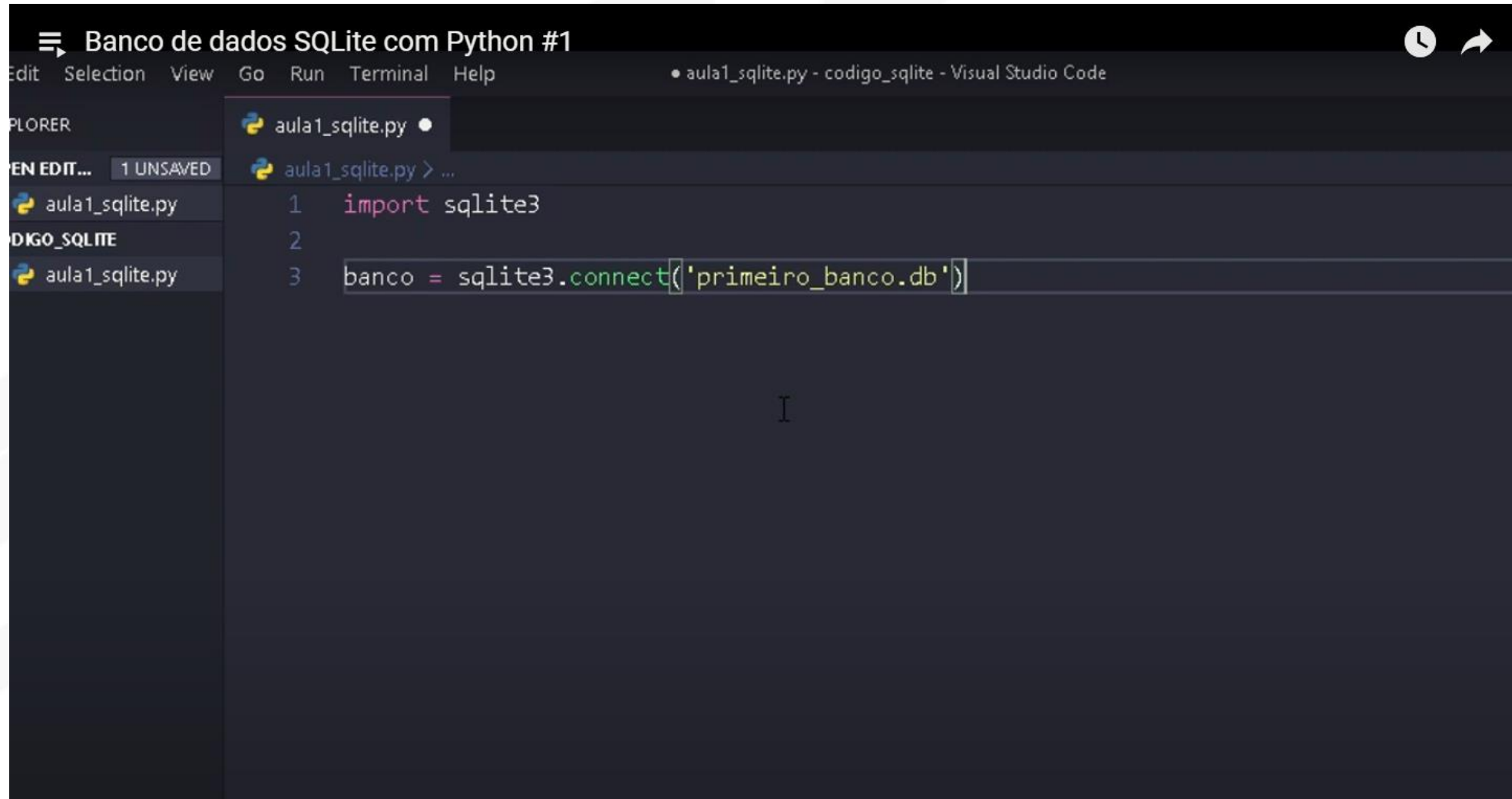
C:\Users\Oem>pip install sqlite-database
Collecting sqlite-database
  Downloading sqlite_database-0.4.5-py3-none-any.whl.metadata (4.1 kB)
Downloading sqlite_database-0.4.5-py3-none-any.whl (27 kB)
Installing collected packages: sqlite-database
Successfully installed sqlite-database-0.4.5

[notice] A new release of pip is available: 24.0 -> 24.1.2
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Users\Oem>_
```

<https://pypi.org/project/sqlite-database/>

Sqlite database



The screenshot shows the Visual Studio Code interface with a file named 'aula1_sqlite.py' open. The editor displays the following Python code:

```
1 import sqlite3
2
3 banco = sqlite3.connect('primeiro_banco.db')
```

The left sidebar shows the Explorer view with the file 'aula1_sqlite.py' selected. The top bar indicates the file is unsaved.

Criando o arquivo: aula1.sqlite.py/e executando o banco

Criando Tabela no Banco

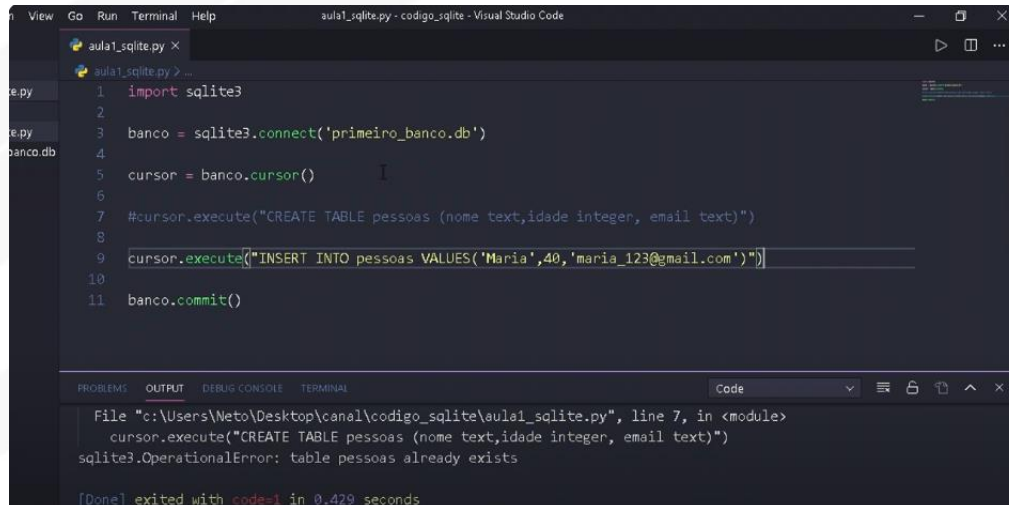
Criando uma tabela

```
import sqlite3

banco=sqlite3.connect('primeiro_banco.db')

cursor=banco.cursor()

cursor.execute("CREATE TABLE pessoas (nome
text,idade integer,email text)")
```



```
File "c:\Users\Neto\Desktop\canal\codigo_sqlite\aula1_sqlite.py", line 7, in <module>
    cursor.execute("CREATE TABLE pessoas (nome text, idade integer, email text)")
sqlite3.OperationalError: table pessoas already exists

[Done] exited with code=1 in 0.429 seconds
```

Inserindo dados em uma tabela

```
import sqlite3

banco=sqlite3.connect('primeiro_banco.db')

cursor=banco.cursor()

cursor.execute("INSERT INTO pessoas
VALUES('paulo',20,'ppaulo@gmail.com')")

banco.commit()
```


Verificando os dados no banco

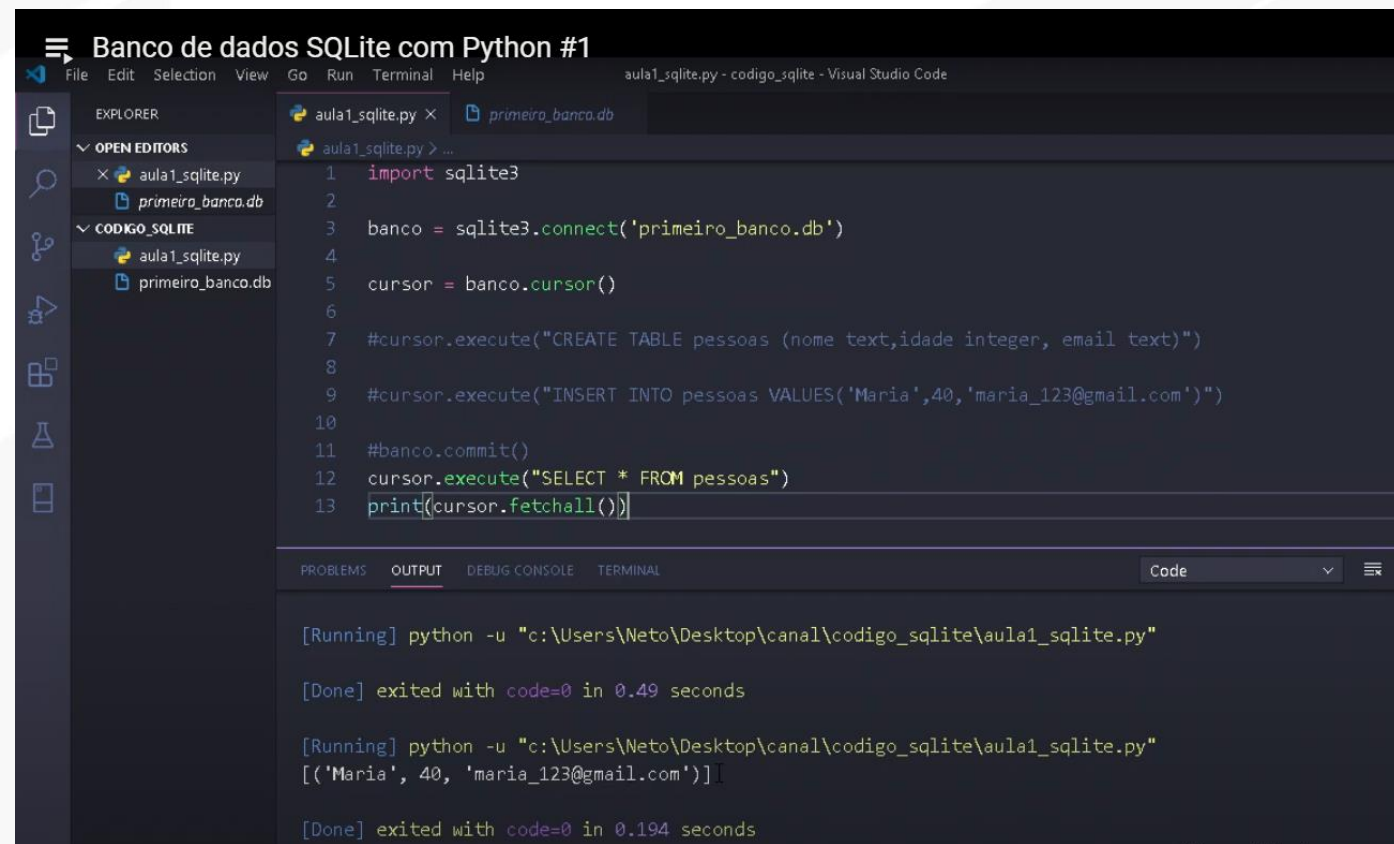
Verificando dados em uma tabela

```
import sqlite3
```

```
banco=sqlite3.connect('primeiro_banco.db')
```

```
cursor=banco.cursor()
```

```
cursor.execute("select* from pessoas")  
print(cursor.fetchall())
```



The screenshot shows the Visual Studio Code interface with a file named 'aula1_sqlite.py' open. The code in the editor is as follows:

```
1 import sqlite3  
2  
3 banco = sqlite3.connect('primeiro_banco.db')  
4  
5 cursor = banco.cursor()  
6  
7 #cursor.execute("CREATE TABLE pessoas (nome text, idade integer, email text)")  
8  
9 #cursor.execute("INSERT INTO pessoas VALUES('Maria', 40, 'maria_123@gmail.com')")  
10  
11 #banco.commit()  
12 cursor.execute("SELECT * FROM pessoas")  
13 print(cursor.fetchall())
```

The Explorer sidebar on the left shows the project structure with files 'aula1_sqlite.py' and 'primeiro_banco.db'. The Output window at the bottom shows the execution results of the script:

```
[Running] python -u "c:\Users\Neto\Desktop\canal\codigo_sqlite\aula1_sqlite.py"  
[Done] exited with code=0 in 0.49 seconds  
  
[Running] python -u "c:\Users\Neto\Desktop\canal\codigo_sqlite\aula1_sqlite.py"  
[('Maria', 40, 'maria_123@gmail.com')]  
[Done] exited with code=0 in 0.194 seconds
```

Para comentar varias linhas shift+ alt
Uma linha usamos #

Novo cadastro no banco

Inserindo dados em uma tabela

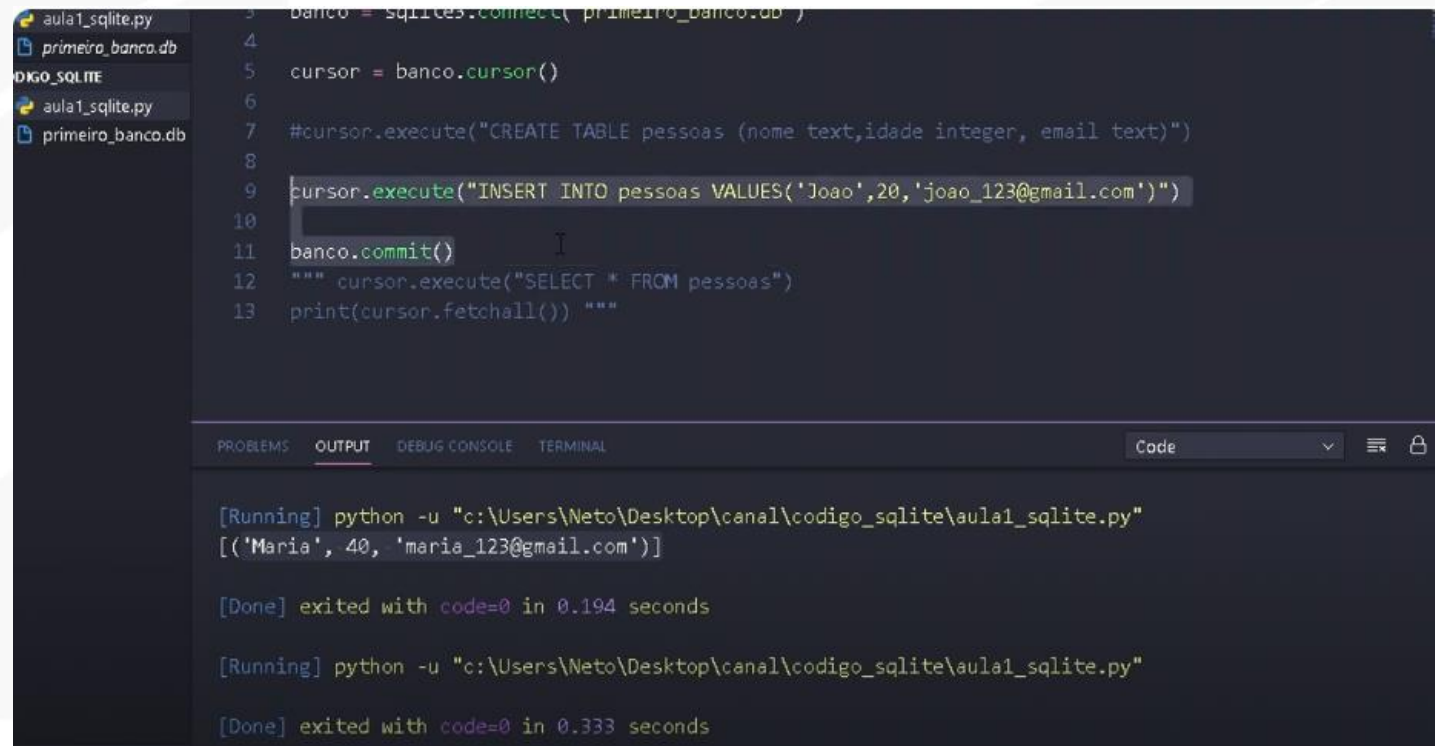
```
import sqlite3
```

```
banco=sqlite3.connect('primeiro_banco.db')
```

```
cursor=banco.cursor()
```

```
cursor.execute("INSERT INTO pessoas  
VALUES('paulo',20,'ppaulo@gmail.com')")
```

```
banco.commit()
```



```
3 banco = sqlite3.connect('primeiro_banco.db')
4
5 cursor = banco.cursor()
6
7 #cursor.execute("CREATE TABLE pessoas (nome text, idade integer, email text)")
8
9 cursor.execute("INSERT INTO pessoas VALUES('Joao',20,'joao_123@gmail.com')")
10
11 banco.commit()
12 """ cursor.execute("SELECT * FROM pessoas")
13 print(cursor.fetchall()) """
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Code

```
[Running] python -u "c:\Users\Neto\Desktop\canal\codigo_sqlite\aula1_sqlite.py"
[('Maria', 40, 'maria_123@gmail.com')]

[Done] exited with code=0 in 0.194 seconds

[Running] python -u "c:\Users\Neto\Desktop\canal\codigo_sqlite\aula1_sqlite.py"

[Done] exited with code=0 in 0.333 seconds
```

Para verificar, comente o cursor.execute
cursor.execute("select* from pessoas")
print(cursor.fetchall())

Criando variável

Abrir novo arquivo.

```
import sqlite3
```

```
nome="Carlos José"
```

```
Idade=35
```

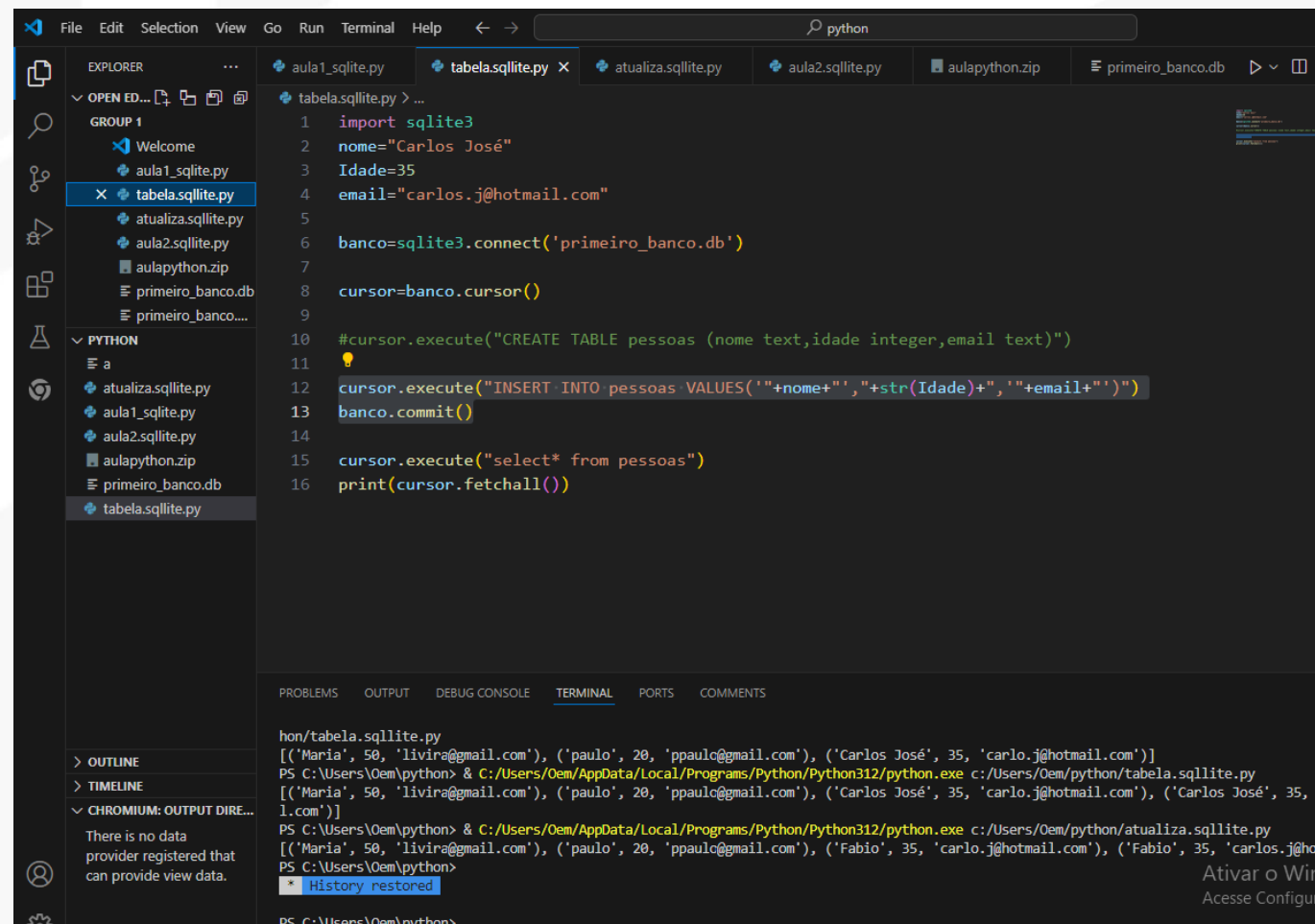
```
email="carlos.j@hotmail.com"
```

```
banco=sqlite3.connect('primeiro_banco.db')
```

```
cursor=banco.cursor()
```

```
cursor.execute("CREATE TABLE pessoas (nome text,idade  
integer,email text)")
```

```
cursor.execute("INSERT INTO pessoas  
VALUES('"+nome+"','"+str(Idade)+"','"+email+"')")  
banco.commit()
```



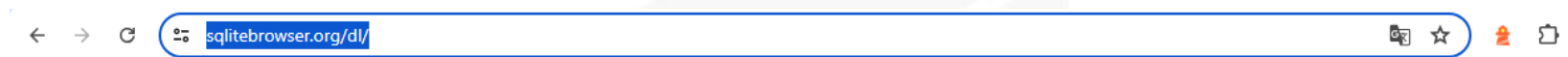
```
File Edit Selection View Go Run Terminal Help python
EXPLORER
OPEN ED...
GROUP 1
Welcome
aula1_sqlite.py
tabela.sqlite.py
atualiza.sqlite.py
aula2.sqlite.py
aulapython.zip
primeiro_banco.db
primeiro_banco....
PYTHON
a
atualiza.sqlite.py
aula1_sqlite.py
aula2.sqlite.py
aulapython.zip
primeiro_banco.db
tabela.sqlite.py
tabela.sqlite.py > ...
1 import sqlite3
2 nome="Carlos José"
3 Idade=35
4 email="carlos.j@hotmail.com"
5
6 banco=sqlite3.connect('primeiro_banco.db')
7
8 cursor=banco.cursor()
9
10 #cursor.execute("CREATE TABLE pessoas (nome text,idade integer,email text)")
11
12 cursor.execute("INSERT INTO pessoas VALUES('"+nome+"','"+str(Idade)+"','"+email+"')")
13 banco.commit()
14
15 cursor.execute("select* from pessoas")
16 print(cursor.fetchall())

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS
hon/tabela.sqlite.py
[('Maria', 50, 'livira@gmail.com'), ('paulo', 20, 'ppaulo@gmail.com'), ('Carlos José', 35, 'carlo.j@hotmail.com')]
PS C:\Users\Oem\python> & C:/Users/Oem/AppData/Local/Programs/Python/Python312/python.exe c:/Users/Oem/python/tabela.sqlite.py
[('Maria', 50, 'livira@gmail.com'), ('paulo', 20, 'ppaulo@gmail.com'), ('Carlos José', 35, 'carlo.j@hotmail.com'), ('Carlos José', 35, 'carlo.j@hotmail.com')]
PS C:\Users\Oem\python> & C:/Users/Oem/AppData/Local/Programs/Python/Python312/python.exe c:/Users/Oem/python/atualiza.sqlite.py
[('Maria', 50, 'livira@gmail.com'), ('paulo', 20, 'ppaulo@gmail.com'), ('Fabio', 35, 'carlo.j@hotmail.com'), ('Fabio', 35, 'carlo.j@hotmail.com')]
PS C:\Users\Oem\python>
History restored
PS C:\Users\Oem\python>
```

Para verificar, comente o cursor.execute
cursor.execute("select* from pessoas")
print(cursor.fetchall())

Fazendo Dowload DB.SQLite portableApp

<https://sqlitebrowser.org/dl/>



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](#)

Free code signing provided by [SignPath.io](#), certificate by [SignPath Foundation](#).

Windows PortableApp

- [DB Browser for SQLite - PortableApp](#)

Note - If for any reason the standard Windows release does not work (e.g. gives an error), try a nightly build ([below](#)).

Nightly builds often fix bugs reported after the last release. 😊

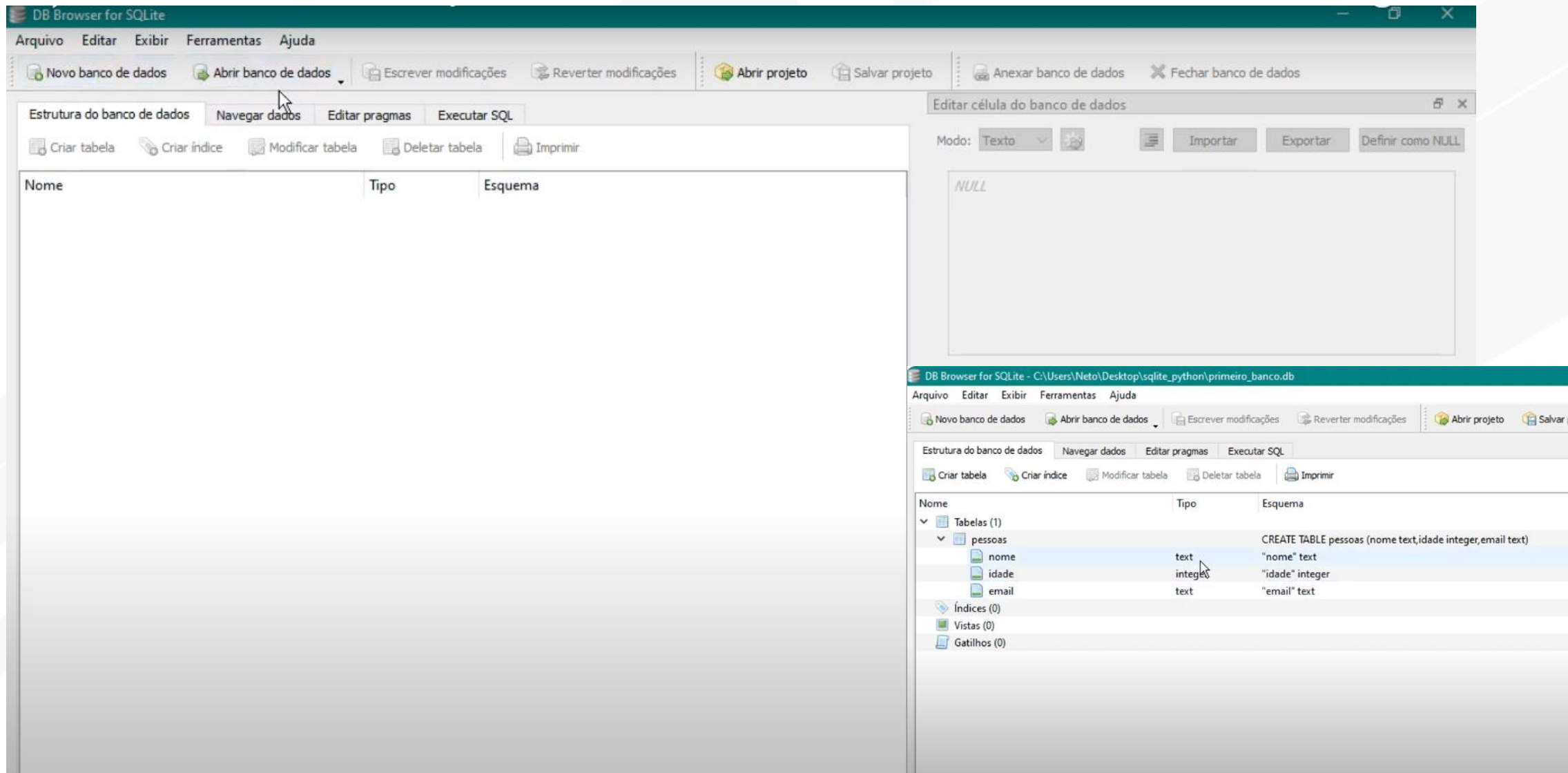
macOS

Our latest release (3.12.2) for macOS:

- [DB Browser for SQLite \(Intel\)](#)
- [DB Browser for SQLite \(Apple Silicon\)](#)

Novo cadastro no banco

Abrindo o banco de dados no DB Browser for SQLite



The image shows two screenshots of the DB Browser for SQLite application. The top screenshot shows the 'Abrir banco de dados' (Open database) menu option being selected. The bottom screenshot shows the application window after opening a database, displaying the database structure.

DB Browser for SQLite - C:\Users\Neto\Desktop\sqlite_python\primeiro_banco.db

Arquivo Editar Exibir Ferramentas Ajuda

Novo banco de dados Abrir banco de dados Escrever modificações Reverter modificações Abrir projeto Salvar projeto Anexar banco de dados Fechar banco de dados

Estrutura do banco de dados Navegar dados Editar pragmas Executar SQL

Criar tabela Criar índice Modificar tabela Deletar tabela Imprimir

Nome	Tipo	Esquema
Tabelas (1)		
▼ pessoas		
nome	text	"nome" text
idade	integer	"idade" integer
email	text	"email" text
Índices (0)		
Vistas (0)		
Gatilhos (0)		

Deletando Registro

```
import sqlite3
#deletar dados de um banco
try:
```

```
    banco=sqlite3.connect('primeiro_banco.db')
```

```
    cursor=banco.cursor()
```

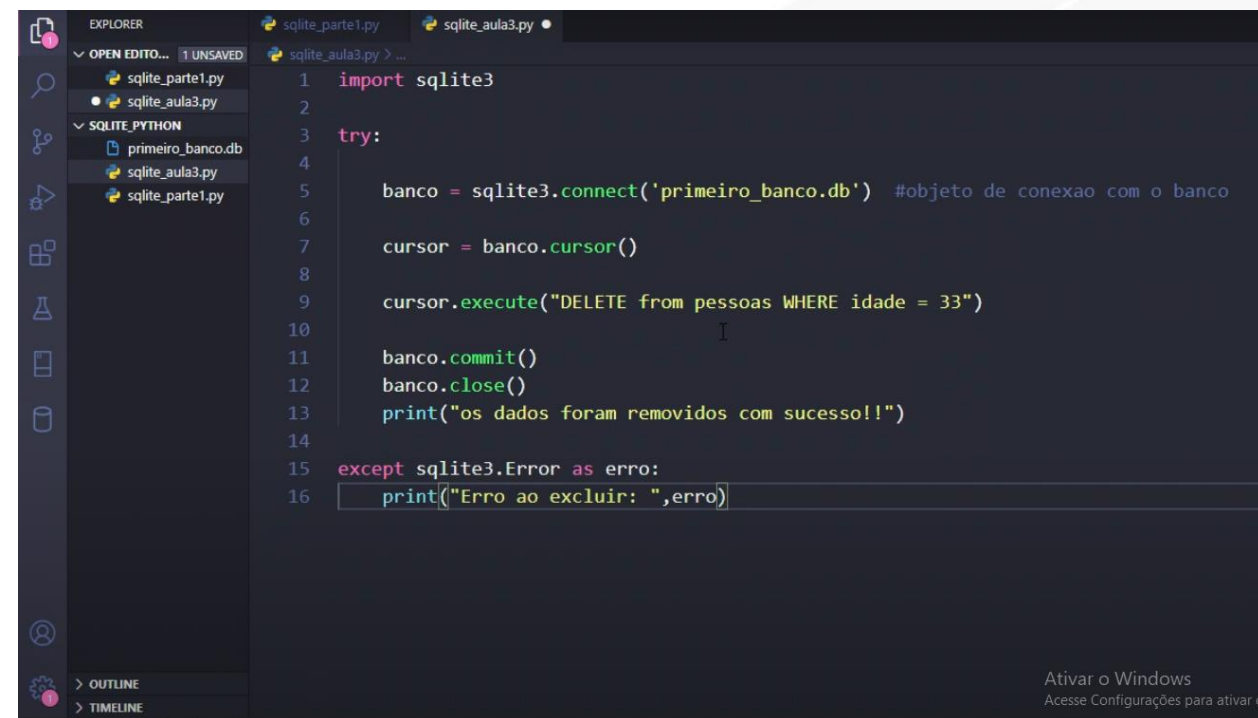
```
    cursor.execute("delete from pessoas where idade=33")
```

```
    banco.commit()
```

```
    banco.close()
```

```
    print("os dados foram removidos com sucesso!!")
```

```
except sqlite3.Error as erro:
    print("Erro ao excluir: ",erro)
```



```
EXPLORER 1 UNSAVED
sqlite_parte1.py
sqlite_aula3.py
SQLITE_PYTHON
primeiro_banco.db
sqlite_aula3.py
sqlite_parte1.py

1 import sqlite3
2
3 try:
4
5     banco = sqlite3.connect('primeiro_banco.db') #objeto de conexao com o banco
6
7     cursor = banco.cursor()
8
9     cursor.execute("DELETE from pessoas WHERE idade = 33")
10
11     banco.commit()
12     banco.close()
13     print("os dados foram removidos com sucesso!!")
14
15 except sqlite3.Error as erro:
16     print("Erro ao excluir: ",erro)
```

Ativar o Windows
Acesse Configurações para ativar o

Try é um blobo

Atualizando Registro

```
import sqlite3
nome="Carlos José"
Idade=35
email="carlos.j@hotmail.com"

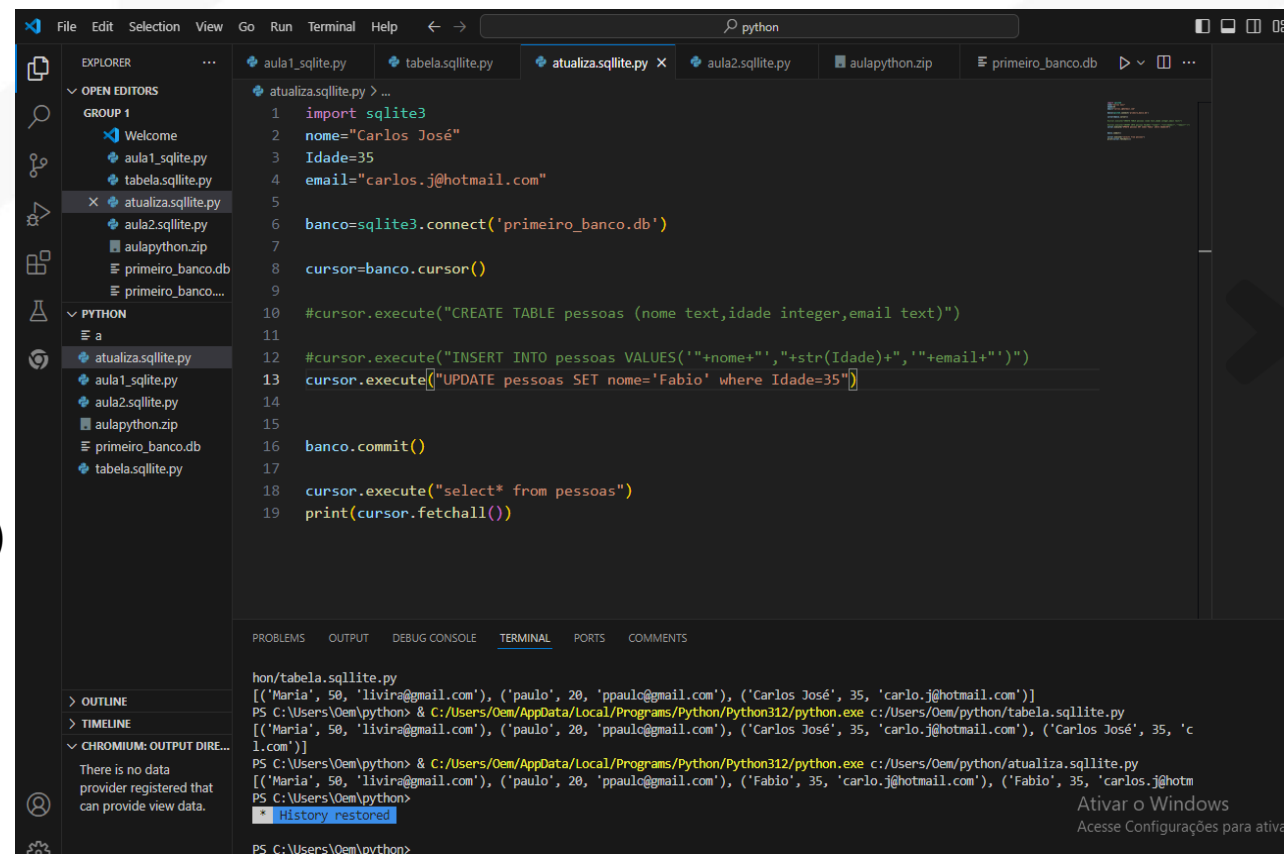
banco=sqlite3.connect('primeiro_banco.db')

cursor=banco.cursor()

cursor.execute("UPDATE pessoas SET nome='Fabio' where Idade=35")

banco.commit()

cursor.execute("select* from pessoas")
print(cursor.fetchall())
```



```
1 import sqlite3
2 nome="Carlos José"
3 Idade=35
4 email="carlos.j@hotmail.com"
5
6 banco=sqlite3.connect('primeiro_banco.db')
7
8 cursor=banco.cursor()
9
10 #cursor.execute("CREATE TABLE pessoas (nome text,idade integer,email text)")
11
12 #cursor.execute("INSERT INTO pessoas VALUES('"+nome+"','"+str(Idade)+"','"+email+"')")
13 cursor.execute("UPDATE pessoas SET nome='Fabio' where Idade=35")
14
15 banco.commit()
16
17 cursor.execute("select* from pessoas")
18 print(cursor.fetchall())
19
```

hon/tabela.sqlite.py

```
[('Maria', 50, 'livira@gmail.com'), ('paulo', 20, 'ppaulc@gmail.com'), ('Carlos José', 35, 'carlo.j@hotmail.com')]
PS C:\Users\Oem\python> & C:/Users/Oem/AppData/Local/Programs/Python/Python312/python.exe c:/Users/Oem/python/tabela.sqlite.py
[('Maria', 50, 'livira@gmail.com'), ('paulo', 20, 'ppaulc@gmail.com'), ('Carlos José', 35, 'carlo.j@hotmail.com'), ('Carlos José', 35, 'c
l.com')]
PS C:\Users\Oem\python> & C:/Users/Oem/AppData/Local/Programs/Python/Python312/python.exe c:/Users/Oem/python/atualiza.sqlite.py
[('Maria', 50, 'livira@gmail.com'), ('paulo', 20, 'ppaulc@gmail.com'), ('Fabio', 35, 'carlo.j@hotmail.com'), ('Fabio', 35, 'carlo.j@hotmail.com')]
PS C:\Users\Oem\python>
```

Ativar o Windows
Acesse Configurações para ativar o Windows.