

**UNINPAHU – Institución Universitaria.**

**Ingeniería de Software**

**DevOps**

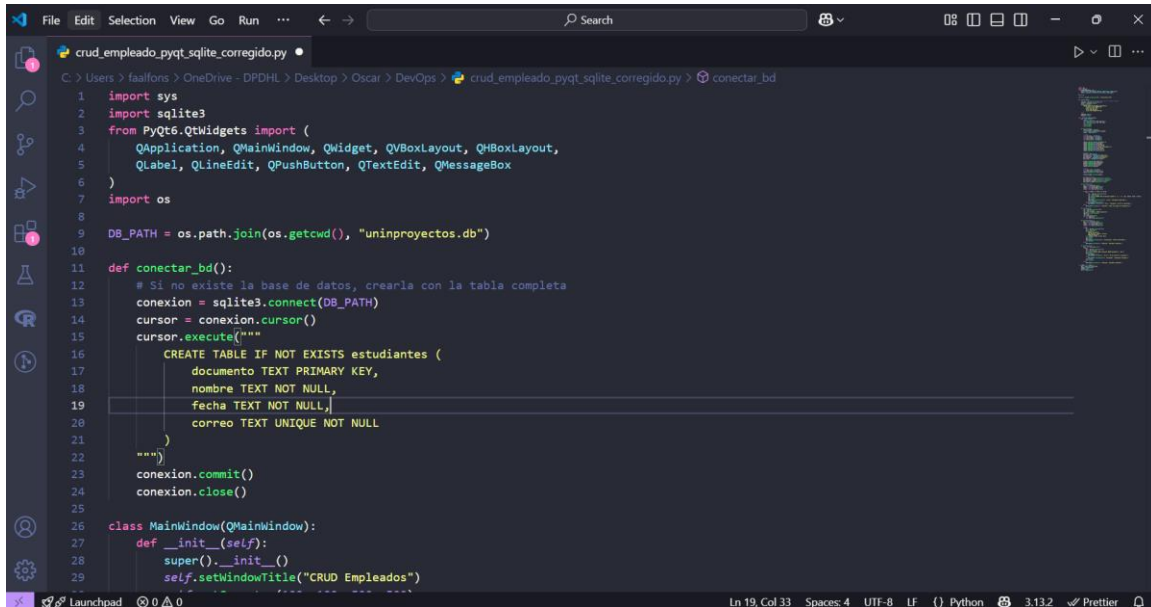
**Taller GitHub.**

**Oscar Fabián Alfonso Cruz**

**20 de Mayo 2025**

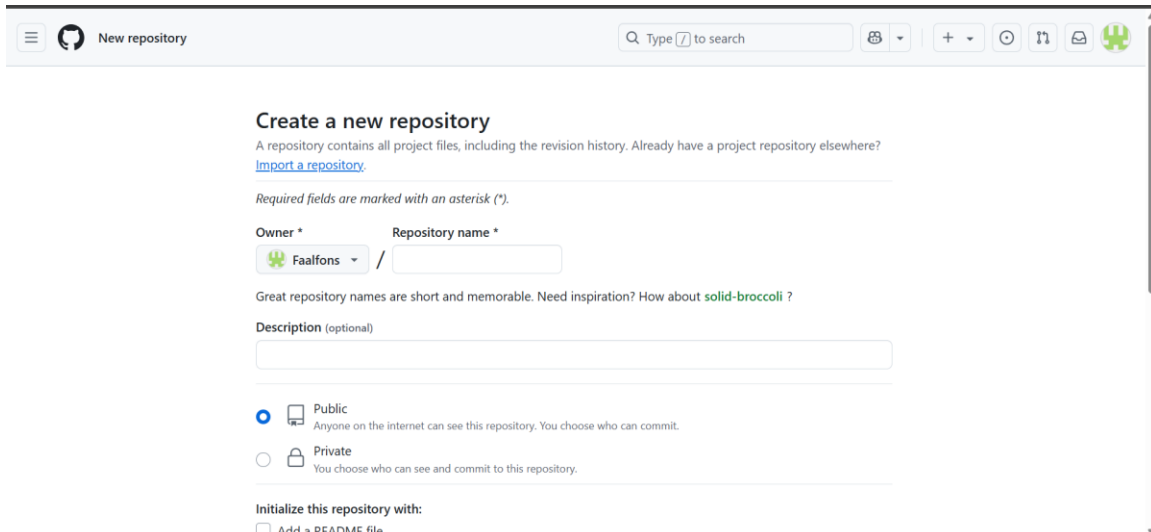
## GitHub con crud de pyqt

1. Se tiene el código el del crud el cual se va a subir a github



```
1 import sys
2 import sqlite3
3 from PyQt6.QtWidgets import (
4     QApplication, QMainWindow, QWidget, QVBoxLayout, QHBoxLayout,
5     QLabel, QLineEdit, QPushButton, QTextEdit, QMessageBox
6 )
7 import os
8
9 DB_PATH = os.path.join(os.getcwd(), "uninproyectos.db")
10
11 def conectar_bd():
12     # Si no existe la base de datos, crearla con la tabla completa
13     conexion = sqlite3.connect(DB_PATH)
14     cursor = conexion.cursor()
15     cursor.execute("""
16         CREATE TABLE IF NOT EXISTS estudiantes (
17             documento TEXT PRIMARY KEY,
18             nombre TEXT NOT NULL,
19             fecha TEXT NOT NULL,
20             correo TEXT UNIQUE NOT NULL
21         )
22     """)
23     conexion.commit()
24     conexion.close()
25
26 class MainWindow(QMainWindow):
27     def __init__(self):
28         super().__init__()
29         self.setWindowTitle("CRUD Empleados")
```

2. Se crea un repositorio con el crud



New repository

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk (\*).

Owner \* Faalfons / Repository name \*

Great repository names are short and memorable. Need inspiration? How about `solid-broccoli` ?

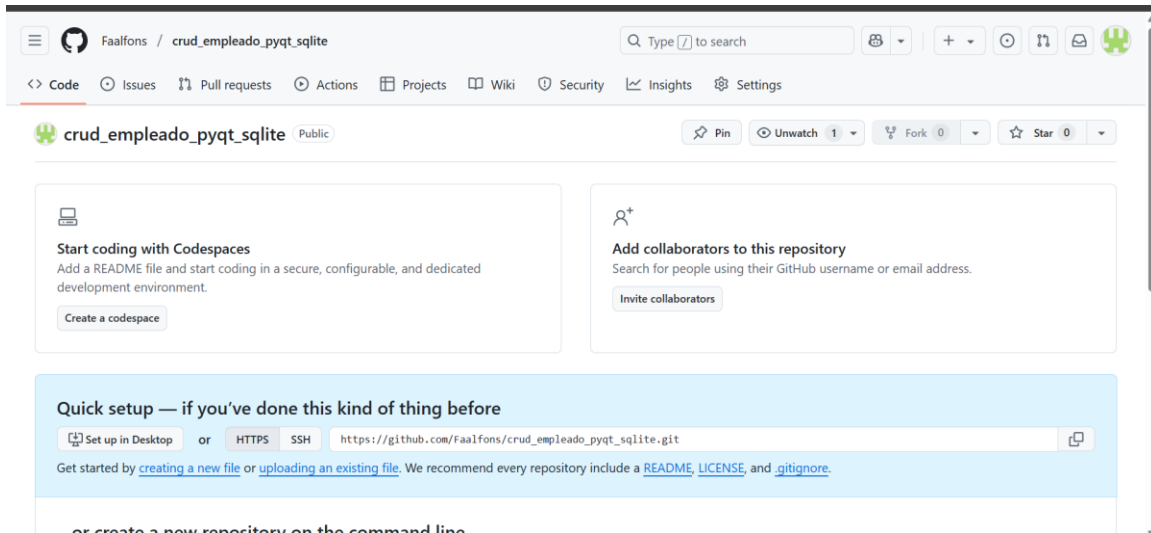
Description (optional)

☒ Public  
Anyone on the internet can see this repository. You choose who can commit.

☐ Private  
You choose who can see and commit to this repository.

Initialize this repository with:

☐ Add a README file



### 3. Se ejecutan los comandos en mi proyecto local

```

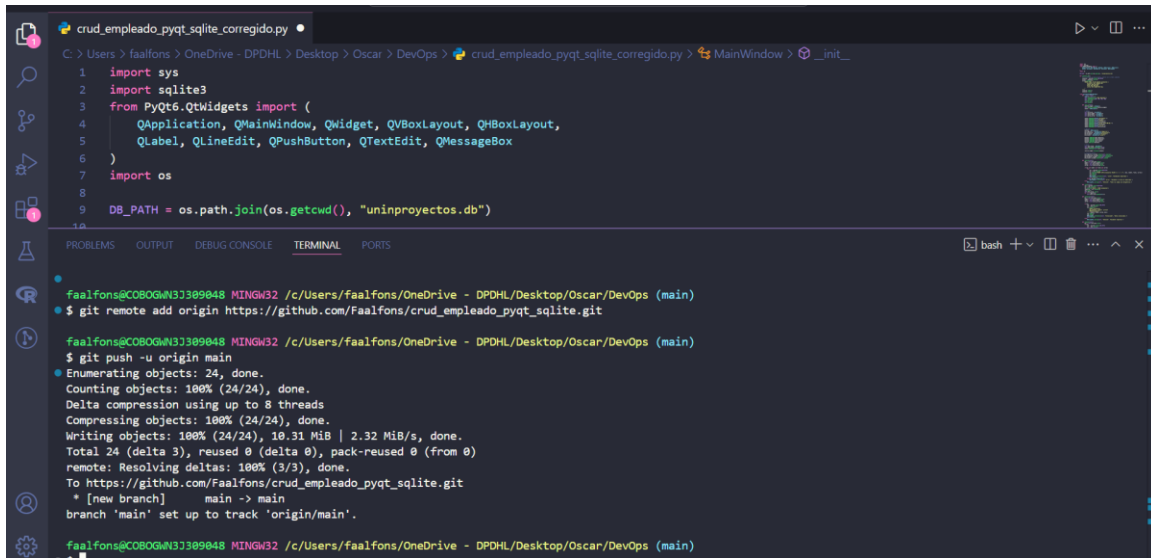
crud_empleado_pyqt_sqlite_corregido.py
C: > Users > faalfons > OneDrive - DPDHL > Desktop > Oscar > DevOps > crud_empleado_pyqt_sqlite_corregido.py > MainWindow > __init__
1 import sys
2 import sqlite3
3 from PyQt6.QtWidgets import (
4     QApplication, QMainWindow, QWidget, QVBoxLayout, QHBoxLayout,
5     QLabel, QLineEdit, QPushButton, QTextEdit, QMessageBox
6 )
7 import os
8
9 DB_PATH = os.path.join(os.getcwd(), "uninproyectos.db")
10
Initial setup complete. MSYS2 is now ready to use.
faalfons@COBOGMN3389048 MINGW32 /c/Users/faalfons
$ git --version
git version 2.48.1.windows.1
faalfons@COBOGMN3389048 MINGW32 /c/Users/faalfons
$ cd "/c/Users/faalfons/OneDrive - DPDHL/Desktop/Oscar/DevOps"
faalfons@COBOGMN3389048 MINGW32 /c/Users/faalfons/OneDrive - DPDHL/Desktop/Oscar/DevOps
$

```

```

crud_empleado_pyqt_sqlite_corregido.py
C: > Users > faalfons > OneDrive - DPDHL > Desktop > Oscar > DevOps > crud_empleado_pyqt_sqlite_corregido.py > MainWindow > __init__
1 import sys
2 import sqlite3
3 from PyQt6.QtWidgets import (
4     QApplication, QMainWindow, QWidget, QVBoxLayout, QHBoxLayout,
5     QLabel, QLineEdit, QPushButton, QTextEdit, QMessageBox
6 )
7 import os
8
9 DB_PATH = os.path.join(os.getcwd(), "uninproyectos.db")
10
faalfons@COBOGMN3389048 MINGW32 /c/Users/faalfons/OneDrive - DPDHL/Desktop/Oscar/DevOps (master)
$ git add .
warning: in the working copy of 'Crud_06.py', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'crud_empleado_pyqt_sqlite_corregido.py', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'crud_estudiantes_pyqt_sqlite.py', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'estudiantes_wxsqllite_corregido.py', LF will be replaced by CRLF the next time Git touches it
faalfons@COBOGMN3389048 MINGW32 /c/Users/faalfons/OneDrive - DPDHL/Desktop/Oscar/DevOps (master)
$ git commit -m "Versión inicial del CRUD con PyQt6 y SQLite"
[master (root-commit) dcd12ef] Versión inicial del CRUD con PyQt6 y SQLite
Committer: Fabian Alfonso Cruz (DHL Supply Chain) <Fabian.Alfonso@dhl.com>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
git config --global --edit

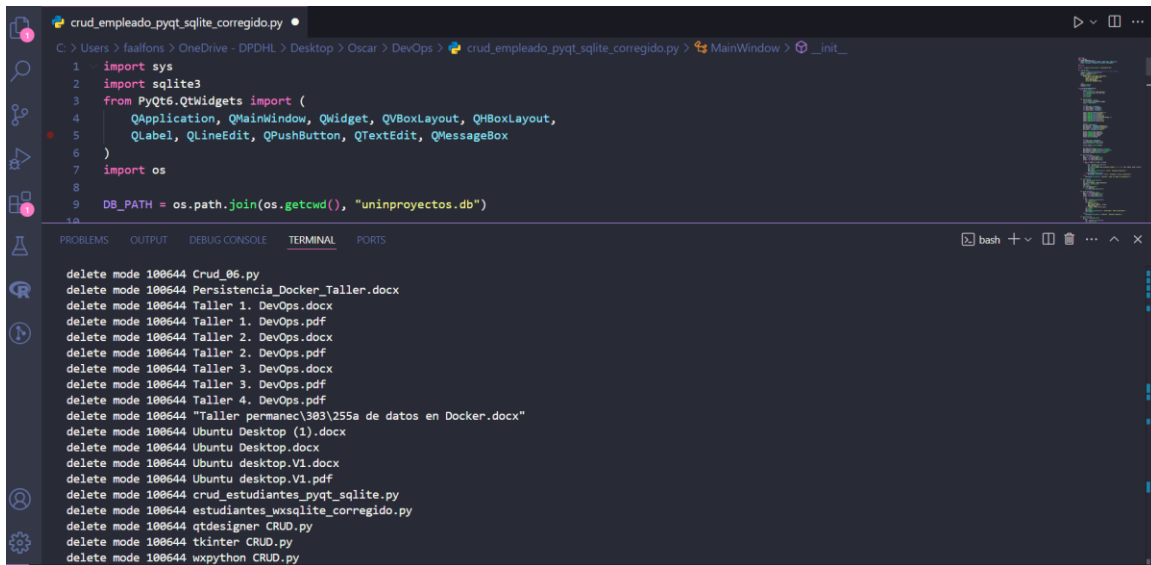
```



```
crud_empleado_pyqt_sqlite_corregido.py
1 import sys
2 import sqlite3
3 from PyQt6.QtWidgets import (
4     QApplication, QMainWindow, QWidget, QVBoxLayout, QHBoxLayout,
5     QLabel, QLineEdit, QPushButton, QTextEdit, QMessageBox
6 )
7 import os
8
9 DB_PATH = os.path.join(os.getcwd(), "uninproyectos.db")

faalfons@COBORGWIN37389048 MINGW32 /c/Users/faalfons/OneDrive - DP DHL/Desktop/Oscar/DevOps (main)
$ git remote add origin https://github.com/Faalfons/crud_empleado_pyqt_sqlite.git
faalfons@COBORGWIN37389048 MINGW32 /c/Users/faalfons/OneDrive - DP DHL/Desktop/Oscar/DevOps (main)
$ git push -u origin main
Enumerating objects: 24, done.
Counting objects: 100% (24/24), done.
Delta compression using up to 8 threads
Compressing objects: 100% (24/24), done.
Writing objects: 100% (24/24), 10.31 MiB | 2.32 MiB/s, done.
Total 24 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), done.
To https://github.com/Faalfons/crud_empleado_pyqt_sqlite.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

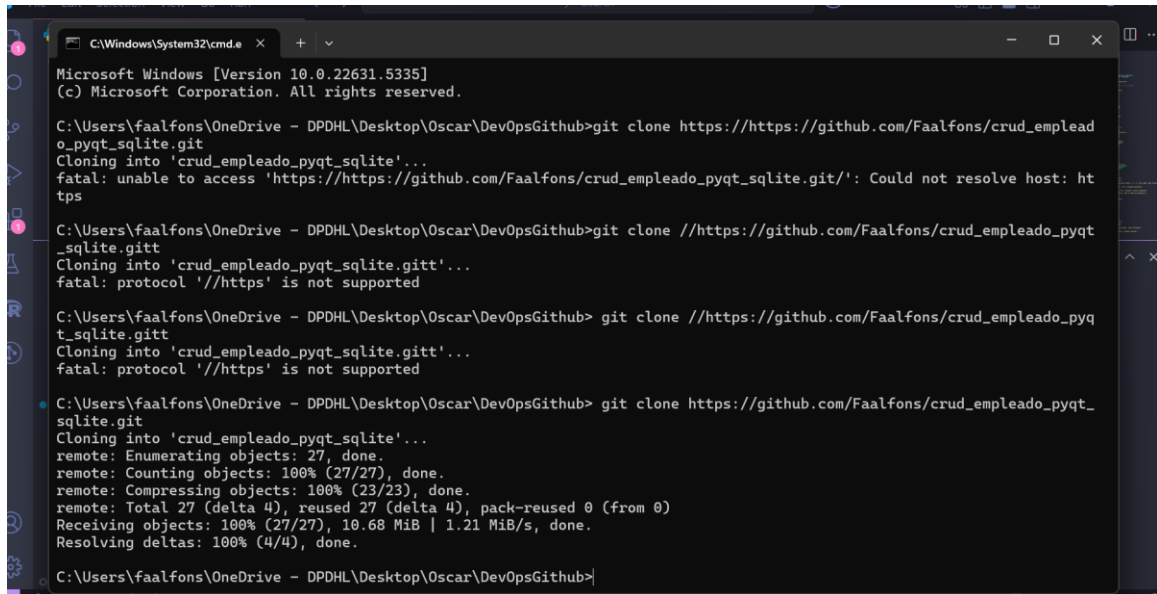
#### 4. Limpieza de datos y archivos innecesarios



```
delete mode 100644 Crud_06.py
delete mode 100644 Persistencia_Docker_Taller.docx
delete mode 100644 Taller 1. DevOps.docx
delete mode 100644 Taller 1. DevOps.pdf
delete mode 100644 Taller 2. DevOps.docx
delete mode 100644 Taller 2. DevOps.pdf
delete mode 100644 Taller 3. DevOps.docx
delete mode 100644 Taller 3. DevOps.pdf
delete mode 100644 Taller 4. DevOps.pdf
delete mode 100644 "Taller permanec\303\255a de datos en Docker.docx"
delete mode 100644 Ubuntu Desktop (1).docx
delete mode 100644 Ubuntu Desktop.docx
delete mode 100644 Ubuntu desktop.V1.docx
delete mode 100644 Ubuntu desktop.V1.pdf
delete mode 100644 crud_estudiantes_pyqt_sqlite.py
delete mode 100644 estudiantes_wxsqllite_corregido.py
delete mode 100644 qt designer CRUD.py
delete mode 100644 tkinter CRUD.py
delete mode 100644 wxpython CRUD.py
```

5. Se clona el programa en una nueva carpeta llamada DevOpsGithub con el siguiente comando:

git clone [https://github.com/Faalfons/crud\\_empleado\\_pyqt\\_sqlite.git](https://github.com/Faalfons/crud_empleado_pyqt_sqlite.git)



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22631.5335]
(c) Microsoft Corporation. All rights reserved.

C:\Users\faalfons\OneDrive - DPDHL\Desktop\Oscar\DevOpsGithub>git clone https://https://github.com/Faalfons/crud_empleado_pyqt_sqlite.git
Cloning into 'crud_empleado_pyqt_sqlite.git'...
fatal: unable to access 'https://https://github.com/Faalfons/crud_empleado_pyqt_sqlite.git/': Could not resolve host: https

C:\Users\faalfons\OneDrive - DPDHL\Desktop\Oscar\DevOpsGithub>git clone //https://github.com/Faalfons/crud_empleado_pyqt_sqlite.git
Cloning into 'crud_empleado_pyqt_sqlite.git'...
fatal: protocol '//https' is not supported

C:\Users\faalfons\OneDrive - DPDHL\Desktop\Oscar\DevOpsGithub> git clone //https://github.com/Faalfons/crud_empleado_pyqt_sqlite.git
Cloning into 'crud_empleado_pyqt_sqlite.git'...
fatal: protocol '//https' is not supported

C:\Users\faalfons\OneDrive - DPDHL\Desktop\Oscar\DevOpsGithub> git clone https://github.com/Faalfons/crud_empleado_pyqt_sqlite.git
Cloning into 'crud_empleado_pyqt_sqlite.git'...
remote: Enumerating objects: 27, done.
remote: Counting objects: 100% (27/27), done.
remote: Compressing objects: 100% (23/23), done.
remote: Total 27 (delta 4), reused 27 (delta 4), pack-reused 0 (from 0)
Receiving objects: 100% (27/27), 10.68 MiB | 1.21 MiB/s, done.
Resolving deltas: 100% (4/4), done.

C:\Users\faalfons\OneDrive - DPDHL\Desktop\Oscar\DevOpsGithub>
```

## 6. Descripción del Crud

Este proyecto consiste en una aplicación de escritorio desarrollada en Python utilizando la biblioteca **PyQt6** para la interfaz gráfica y **SQLite** como sistema de base de datos local. La aplicación permite realizar operaciones CRUD (Crear, Leer, Actualizar, Eliminar) sobre un registro de estudiantes, almacenando los siguientes datos:

- Documento (ID único)
- Nombre
- Fecha de nacimiento (o fecha de registro)
- Correo electrónico

La interfaz permite al usuario:

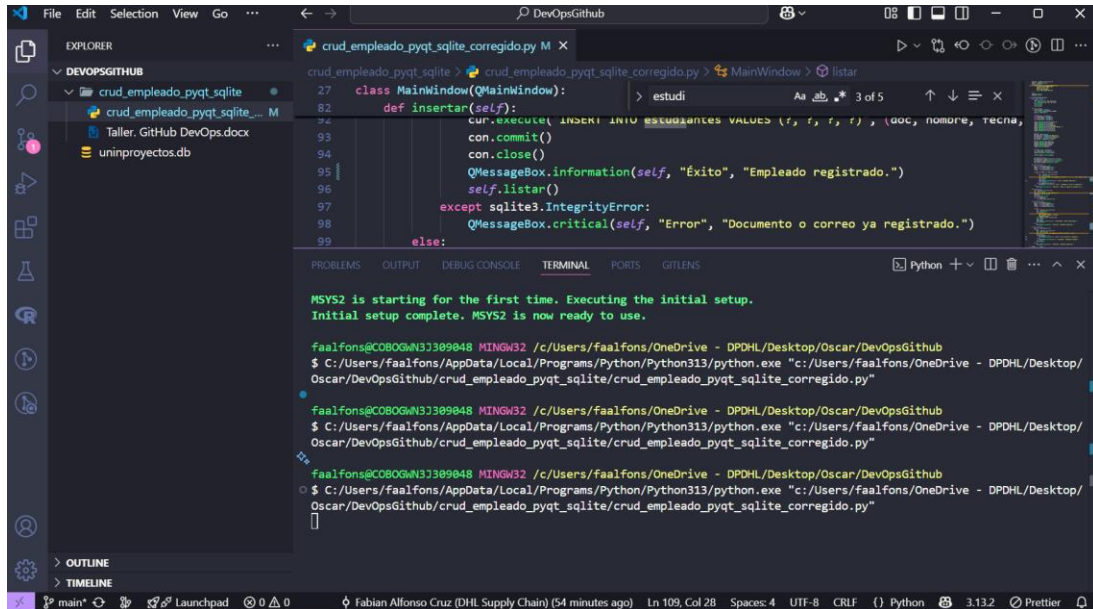
- Registrar nuevos estudiantes
- Consultar y listar todos los estudiantes registrados
- Actualizar la información de un estudiante a partir del documento
- Eliminar registros existentes

### Características técnicas:

- Interfaz gráfica intuitiva con PyQt6
- Persistencia de datos con SQLite

- Validaciones básicas para campos obligatorios y duplicados
- Código modular y comentado

## 7. Repositorio clonado y ejecutando



```

class MainWindow(QMainWindow):
    def insertar(self):
        cur.execute(INSERT INTO estudiantes VALUES (f, t, f, f), (doc, nombre, fecha, correo))
        con.commit()
        con.close()
        QMessageBox.information(self, "Éxito", "Empleado registrado.")
        self.listar()
    except sqlite3.IntegrityError:
        QMessageBox.critical(self, "Error", "Documento o correo ya registrado.")
    else:

```

```

MSYS2 is starting for the first time. Executing the initial setup.
Initial setup complete. MSYS2 is now ready to use.

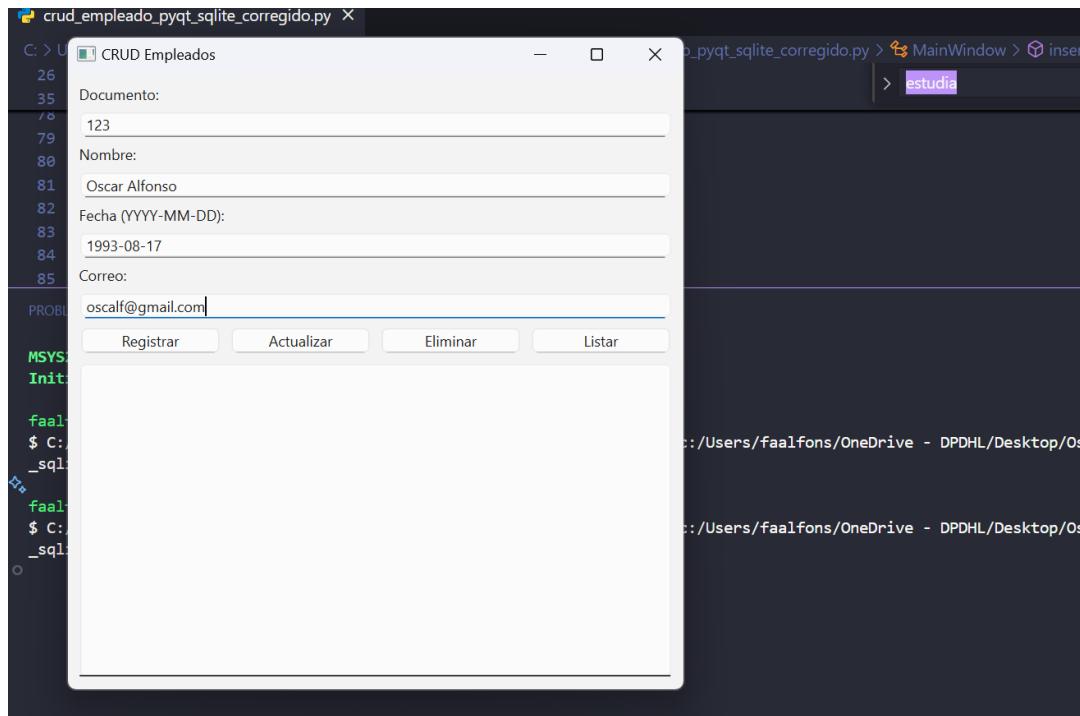
faalfons@COBOG\N37399048 MINGW32 /c:/Users/faalfons/OneDrive - DPDHL/Desktop/Oscar/DevOpsGithub
$ C:/Users/faalfons/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/faalfons/OneDrive - DPDHL/Desktop/Oscar/DevOpsGithub/crud_empleado_pyqt_sqlite/crud_empleado_pyqt_sqlite_corregido.py"

faalfons@COBOG\N37399048 MINGW32 /c:/Users/faalfons/OneDrive - DPDHL/Desktop/Oscar/DevOpsGithub
$ C:/Users/faalfons/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/faalfons/OneDrive - DPDHL/Desktop/Oscar/DevOpsGithub/crud_empleado_pyqt_sqlite/crud_empleado_pyqt_sqlite_corregido.py"

faalfons@COBOG\N37399048 MINGW32 /c:/Users/faalfons/OneDrive - DPDHL/Desktop/Oscar/DevOpsGithub
$ C:/Users/faalfons/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/faalfons/OneDrive - DPDHL/Desktop/Oscar/DevOpsGithub/crud_empleado_pyqt_sqlite/crud_empleado_pyqt_sqlite_corregido.py"

```

## 8. Interfaz del Crud (Ingreso de empleados)



CRUD Empleados

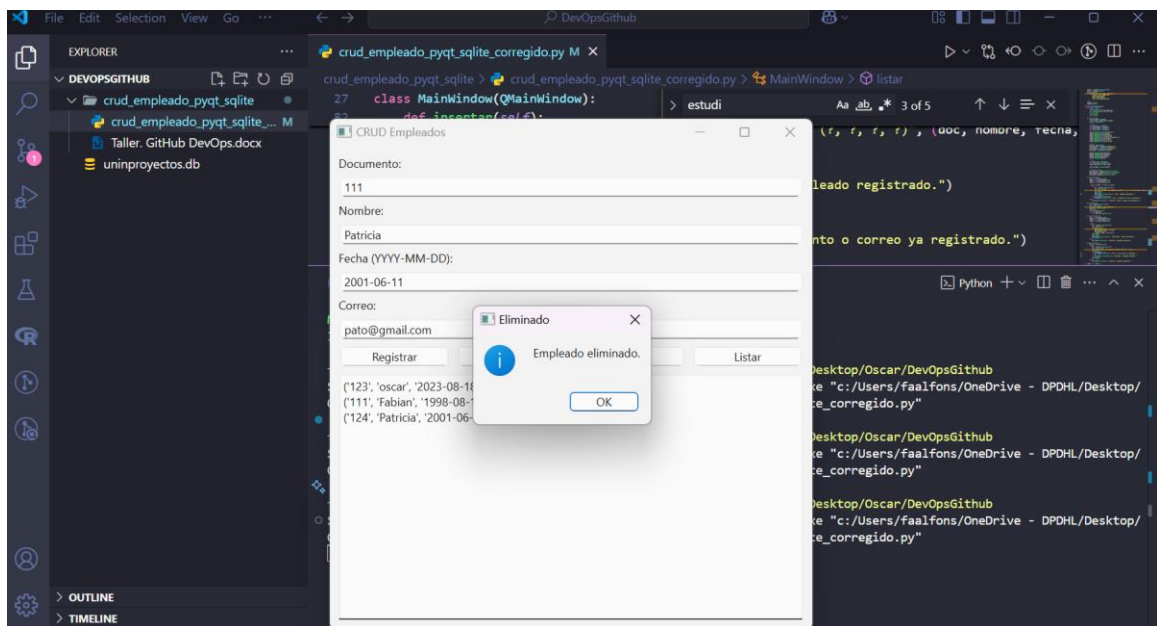
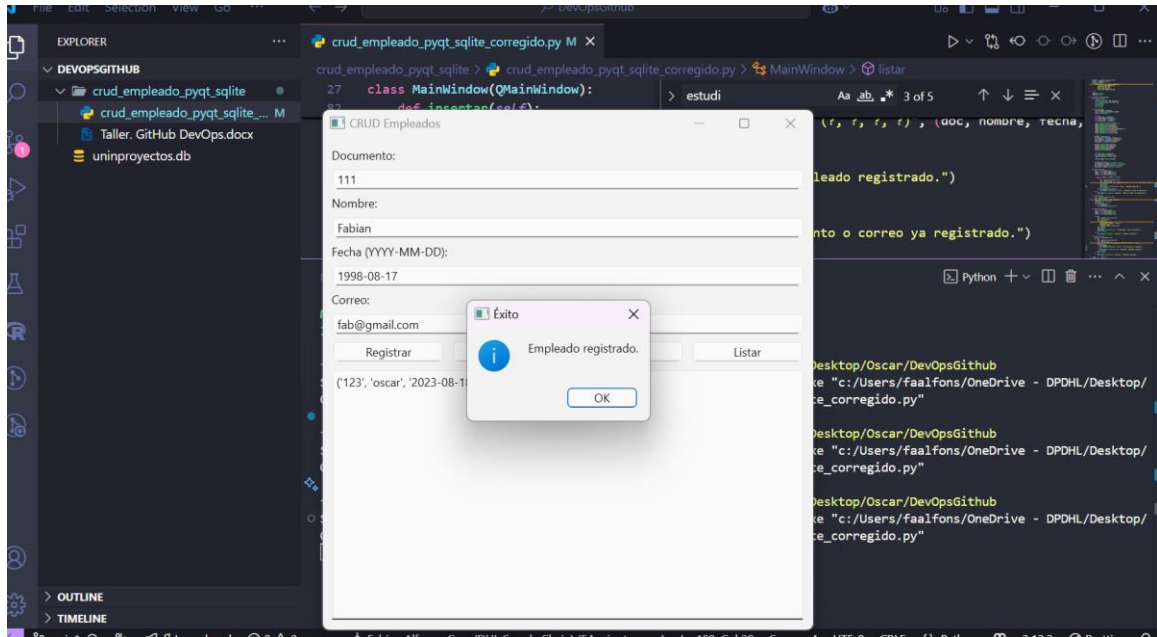
Documento: 123

Nombre: Oscar Alfonso

Fecha (YYYY-MM-DD): 1993-08-17

Correo: oscalf@gmail.com

Registrar Actualizar Eliminar Listar



Repositorio del CRUD: [https://github.com/Faalfons/crud\\_empleado\\_pyqt\\_sqlite](https://github.com/Faalfons/crud_empleado_pyqt_sqlite)