#### Modulo 6

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```

### 1 Criando meu primeiro arquivo do SQLite (db.sqlite3)

```
import sqlite3
from pathlib import Path

ROOT_DIR = Path(__file__).parent
DB_NAME = 'db.sqlite3'
DB_FILE = ROOT_DIR / DB_NAME

connection = sqlite3.connect(DB_FILE)
cursor = connection.cursor()

# SQL

cursor.close()
connection.close()
```

# 2 Criando minha primeira tabela no SQLite3 (DBeaver opcional)

```
ROOT_DIR = Path(__file__).parent
DB_NAME = 'db.sqlite3'
DB_FILE = ROOT_DIR / DB_NAME
TABLE_NAME = 'customers'
connection = sqlite3.connect(DB_FILE)
cursor = connection.cursor()
# SQL
cursor.execute(
    f'CREATE TABLE IF NOT EXISTS {TABLE_NAME}'
    '('
    'id INTEGER PRIMARY KEY AUTOINCREMENT,'
    'name TEXT,'
    'weight REAL'
    ,),
)
connection.commit()
cursor.close()
connection.close()
```

# 3 inserindo valores (INSERT INTO), DELETE sem WHERE e zerando a sqlite

```
connection = sqlite3.connect(DB_FILE)
cursor = connection.cursor()

# CUIDADO: fazendo delete sem where
cursor.execute(
```

```
f'DELETE FROM {TABLE_NAME}'
)
cursor.execute(
    f'DELETE FROM sqlite_sequence WHERE name="{TABLE_NAME}";
)
connection.commit()
# Cria a tabela
cursor.execute(
    f'CREATE TABLE IF NOT EXISTS {TABLE_NAME}'
)
connection.commit()
# Registrar valores nas colunas da tabela
# CUIDADO: sql injection
cursor.execute(
    f'INSERT INTO {TABLE_NAME} '
    '(id, name, weight)'
    'VALUES'
    '(NULL, "Helena", 4), (NULL, "Eduardo", 10)'
)
connection.commit()
cursor.close()
connection.close()
```

# 4 Usando placeholders

Esse codigo é uma continuação do codigo anterior

```
connection.commit()
# Registrar valores nas colunas da tabela
# CUIDADO: sql injection
cursor.execute(
sql = (
   f'INSERT INTO {TABLE_NAME} '
    '(id, name, weight)'
    '(name, weight)
    'VALUES'
    '(NULL, "Helena", 4), (NULL, "Eduardo", 10)'
    '(?, ?)'
)
cursor.execute(sql, ['Joana', 4])
connection.commit()
print(sql)
cursor.close()
connection.close()
```

5 Inserindo vários valores com execute many

6 execute e executemany com dicionários e lista de dicionários

```
f'INSERT INTO {TABLE_NAME} '
    '(name, weight) '
    'VALUES '
    '(?, ?)'
    '(:nome, :peso)'
)
# cursor.execute(sql, ['Joana', 4])
cursor.executemany(
    sql,
```

#### 7 SELECT do SQL com fetch no SQLite3 do Python

```
main.pv
         {'nome': 'Joana', 'peso': 5},
         ))
         connection.commit()
         print(sql)
         cursor.close()
         connection.close()
         if __name__ == '__main__':
             print(sql)
  select.py
         import sqlite3
from main import DB_FILE, TABLE_NAME
connection = sqlite3.connect(DB_FILE)
cursor = connection.cursor()
cursor.execute(
    f'SELECT * FROM {TABLE_NAME}'
for row in cursor.fetchall():
    _id, name, weight = row
    print(_id, name, weight)
print()
cursor.execute(
    f'SELECT * FROM {TABLE_NAME} '
'WHERE id = "3"'
)
row = cursor.fetchone()
_id, name, weight = row print(_id, name, weight)
cursor.close()
connection.close()
```

# 8 O que é CRUD + DELETE com e sem WHERE no SQLite3 do Python

# 9 DELETE no SQLite do Python

```
{'nome': 'Joana', 'peso': 5},
))
connection.commit()
cursor.close()
connection.close()
if __name__ == '__main__':
   print(sql)
    cursor.execute(
        f'DELETE FROM {TABLE_NAME} '
        'WHERE id = "3"'
    cursor.execute(
        f'DELETE FROM {TABLE_NAME} '
        'WHERE id = 1'
    )
    connection.commit()
    cursor.execute(
       f'SELECT * FROM {TABLE_NAME}'
    for row in cursor.fetchall():
        _id, name, weight = row
        print(_id, name, weight)
    cursor.close()
    connection.close()
```

### 10 UPDATE no SQLite com Python

```
)
connection.commit()

cursor.execute(
    f'UPDATE {TABLE_NAME} '
    'SET name="QUALQUER", weight=67.89 '
    'WHERE id = 2'
)
connection.commit()

cursor.execute(
    f'SELECT * FROM {TABLE_NAME}'
)
```