



001

INTRODUCCCIÓN BASES DE DATOS



T3A



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Conectarse, crear y manejar una base de datos

Importamos sqlite3

```
In [8]: import sqlite3
```

Nos conectamos/creamos la base de datos donde nos queremos conectar

```
In [10]: connection = sqlite3.connect('lauretes.db')  
cursor = connection.cursor()
```

```
cursor.execute("Sql Statement")
```

Hacemos commit de los statements realizados y cerramos nuestra conexión con la base de datos

```
connection.commit()  
connection.close()
```

Creación de tablas

```
CREATE TABLE table_name (  
    column1 datatype,  
    column2 datatype,  
    column3 datatype,  
    ....  
);
```

```
CREATE TABLE table_name (  
    column1 datatype constraint,  
    column2 datatype constraint,  
    column3 datatype constraint,  
    ....  
);
```

Eliminar Tablas

Borrar tabla:

```
DROP TABLE table_name;
```

Eliminar datos de una tabla:

```
TRUNCATE TABLE table_name;
```

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Modificar tabla

Cambiar el nombre de una tabla

```
ALTER TABLE existing_table  
RENAME TO new_table;
```

Agregar columnas:

```
ALTER TABLE table_name  
ADD COLUMN column_definition;
```

Renombrar columnas

```
ALTER TABLE table_name  
RENAME COLUMN current_name TO new_name;
```

Constraints

NOT NULL

- UNIQUE
- PRIMARY KEY
- FOREIGN KEY
- CHECK
- DEFAULT

Check

```
CREATE TABLE table_name(  
    ...,  
    column_name data_type CHECK(expression),  
    ...  
);
```


Foreign Key

```
CREATE TABLE suppliers (  
    supplier_id    INTEGER PRIMARY KEY,  
    supplier_name  TEXT      NOT NULL,  
    group_id       INTEGER NOT NULL,  
    FOREIGN KEY (group_id)  
        REFERENCES supplier_groups (group_id)  
);
```

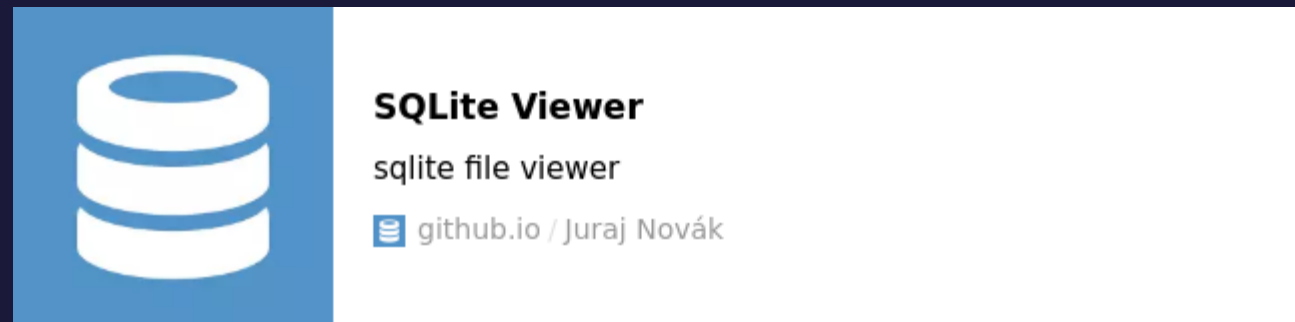
Insertar Valores

```
INSERT INTO table (column1,column2 ,..)
VALUES( value1, value2 ,...);
```

[illegible]

¿Como veo mis tablas y datos?

Usando pragma table info



<https://inloop.github.io/sqlite-viewer/>

Return columns

pragma table_info returns 6 columns:

Column name	Comment
cid	Column id.
name	
type	data types
notnull	Indicates if column has a not null constraint .
dflt_value	The default value for the column.
pk	0: column does not participate in a primary key constraint . Otherwise the position of the primary key.