

# SQLITE



Showcased by Gruschka J. and Pirani A.

## WHAT IS IT?

SQLite is a lightweight, open source and embedded **RDBMS** widely used for its simplicity and efficiency



Every database contains a **schema table** that stores the schema for that database

SQLite is the **most** widely deployed and used Database Engine, while being one of the **smallest** in size: only 750 KiB

## CAP & ACID

**Consistency** and **Availability** are the main properties of this database, which are reflected in:



### Atomic

All changes to data are **performed together**



### Consistent

Data is always in a **consistent state**



### Isolated

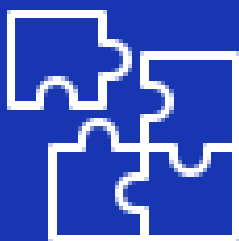
Transactions do not **interfere**



### Durable

Changes made to data **persist**

## FEATURES



**Performing:** more than 2x faster than (most) SQL based databases

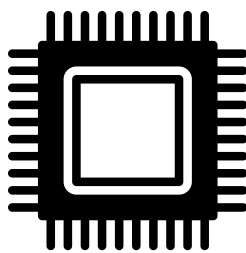
**Secure:** with the SEE protocol for DB encryption

**Tested:** more than 90k lines of tests with 100% branch coverage

## WHEN TO USE?



Small Websites



Embedded Devices



Data Analysis

*and more...*

## MARKET



- 9th place among the other DBs
- used by Google, Apple & more



## DEMO

with Simple and Advanced SQL statements

Find out **more** on our github page:  
<https://github.com/AntonioPirani/SQLiteProject>