

Introduction to SQLite

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What is SQLite?

SQLite is a self-contained, serverless, zero-configuration, and transactional SQL database engine. Unlike other database management systems, SQLite is not a separate process that applications talk to; it is a library that gets embedded into the application.

Why Use SQLite?

- **Simplicity:** Easy to set up and use.
- **Lightweight:** Minimal setup, no server required.
- **Portable:** Databases are stored in a single file.
- **Fast:** Efficient for read-heavy operations.
- **Self-contained:** No external dependencies.

SQLite vs MySQL

- **Serverless:** SQLite does not require a server, while MySQL does.
- **File-based:** SQLite databases are single files, whereas MySQL databases are managed by a server.
- **Configuration:** SQLite requires no configuration, while MySQL requires setup and management.

2. Setting Up SQLite

Installing SQLite

Windows:

1. Download the SQLite binaries from the [official SQLite website](#).
2. Extract the files to a directory of your choice.
3. Add the directory to your system PATH.