



*Small. Fast. Reliable.
Choose any three.*

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Features Of SQLite

- [Transactions](#) are atomic, consistent, isolated, and durable (ACID) even after system crashes and power failures.
- [Zero-configuration](#) - no setup or administration needed.
- [Full-featured SQL](#) implementation with advanced capabilities like [partial indexes](#), [indexes on expressions](#), [JSON](#), [common table expressions](#), and [window functions](#). ([Omitted features](#))
- A complete database is stored in a [single cross-platform disk file](#). Great for use as an [application file format](#).
- Supports terabyte-sized databases and gigabyte-sized strings and blobs. (See [limits.html](#).)
- Small code [footprint](#): less than 600KiB fully configured or much less with optional features omitted.
- Simple, easy to use [API](#).
- Fast: In some cases, SQLite is [faster than direct filesystem I/O](#)
- Written in ANSI-C. [TCL bindings](#) included. Bindings for dozens of other languages available separately.
- Well-commented source code with [100% branch test coverage](#).
- Available as a [single ANSI-C source-code file](#) that is [easy to compile](#) and hence is easy to add into a larger project.
- [Self-contained](#): no external dependencies.
- Cross-platform: Android, *BSD, iOS, Linux, Mac, Solaris, VxWorks, and Windows (Win32, WinCE, WinRT) are supported out of the box. Easy to port to other systems.
- Sources are in the [public domain](#). Use for any purpose.
- Comes with a standalone [command-line interface](#) (CLI) client that can be used to administer SQLite databases.

Suggested Uses For SQLite:

- **Database For The Internet Of Things.** SQLite is popular choice for the database engine in cellphones, PDAs, MP3 players, set-top boxes, and other electronic gadgets. SQLite has a small code footprint, makes efficient use of memory, disk space, and disk bandwidth, is highly reliable, and requires no maintenance from a Database Administrator.

- **Application File Format.** Rather than using `fopen()` to write XML, JSON, CSV, or some proprietary format into disk files used by your application, use an SQLite database. You'll avoid having to write and troubleshoot a parser, your data will be more easily accessible and cross-platform, and your updates will be transactional. ([more...](#))
- **Website Database.** Because it requires no configuration and stores information in ordinary disk files, SQLite is a popular choice as the database to back small to medium-sized websites.
- **Stand-in For An Enterprise RDBMS.** SQLite is often used as a surrogate for an enterprise RDBMS for demonstration purposes or for testing. SQLite is fast and requires no setup, which takes a lot of the hassle out of testing and which makes demos perky and easy to launch.
- [More suggestions...](#)