Let's Build a Simple Database

Writing a sqlite clone from scratch in C

Overview

View on GitHub (pull requests welcome)

How Does a Database Work?

- What format is data saved in? (in memory and on disk)
- When does it move from memory to disk?
- Why can there only be one primary key per table?
- How does rolling back a transaction work?
- How are indexes formatted?
- When and how does a full table scan happen?
- What format is a prepared statement saved in?

In short, how does a database **work**?

I'm building a clone of sqlite from scratch in C in order to understand, and I'm going to document my process as I go.

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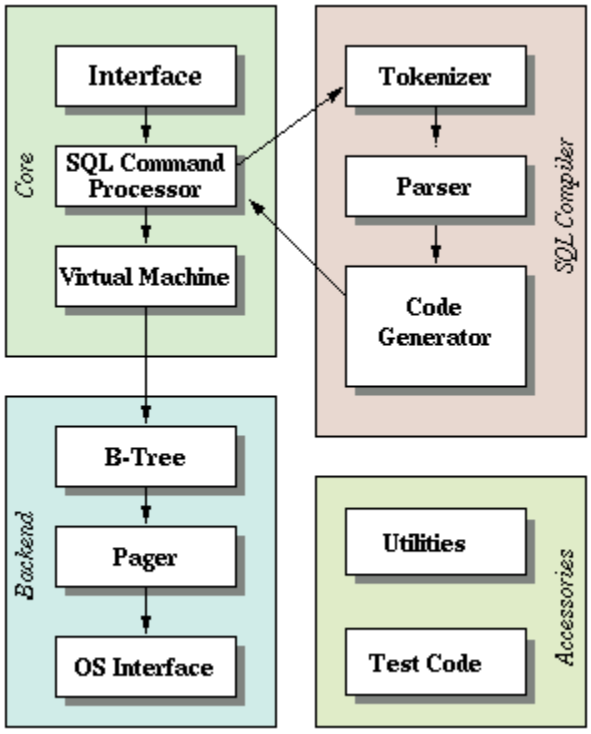
> *"What I cannot create, I do not understand." – Richard Feynman*



sqlite architecture (https://www.sqlite.org/arch.html)

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