

SQLite

Lighter than SQLite!

In this version SQLite can now store, delete insert, and query tuples.

How SQLite organizes multiple databases?

Each database has its own dedicated directory.

How SQLite manages multiple tables?

Each table is stored in its own dedicated file.

How SQLite store tuples in the table?

Each item in a tuple is separated by a '|' when stored to a table.

How SQLite do tuple insertion?

A tuple is appended at the end of the table for insertions.

How SQLite do tuple deletion?

SQLite reads the table into memory and if a condition is met, removes that row from the table and overwrites the file.

How SQLite do tuple modification?

SQLite reads the table into memory and if a condition is met, modifies that column from the table to the new value and overwrites the file.

How SQLite do tuple modification?

SQLite reads the table into memory and if a condition is met, modifies that column from the table to the new value and overwrites the file.

How SQLite do tuple query?

SQLite reads the table into memory and prints the selected columns if a condition is met.

Implementation

SQLite is implemented in Python to handle major database operations such as creating databases or tables and querying tables.

Requirements

Python version >= 3.10

How to use

Run SQLite using standard input.

```
python main.py < PA2_test.sql
```

Run SQLite using editor.

```
python main.py
```