


**sarp** 9 months ago

- The first **page** of the database file (after the database header) contains a **leaf table b-tree page**
- Each **cell** in this **leaf table b-tree page** has a **payload** that contains a **record**. (see [diagram](#)). The body of each record corresponds to a row of [sqlite_schema](#) table
- Since [sqlite_schema](#) table stores information about tables in our database, number of cells in this leaf table b-tree page will give us number of tables in the database
- You can determine the number of cells by reading [B-tree Page Header](#) (right after the database header)

^ 18

 reply**DiegoAlpizar** 11 months ago

This helped me to visualize the underlying binary with schemes and drawings:

https://link.springer.com/content/pdf/10.1007/978-3-030-98467-0_5.pdf

^ 11

 reply**SteveLauC** 5 months ago

The number of cells stored in the root page of `sqlite_master` includes all the types of entries, not only tables, and if this is not a leaf node, you should traverse the whole tree to find the # of tables

^ 9

 reply**insufferablejake** 9 months ago

All the previous links were really helpful. It also helped me to read the page type in the B-tree page header in the official docs [here](#) That table also lists the offsets for the number of cells contained. Remember each cell corresponds to one table, so this will give us the number of tables.

^ 1

 reply