

REPOS
<b>id</b> VARCHAR(40) PRIMARY KEY
<b>rev</b> VARCHAR(40) NOT NULL
<b>prefix</b> VARCHAR(40) NOT NULL
UNIQUE(name), UNIQUE(rev), UNIQUE(prefix)

Project names are kept in REPOS table.  
Each project gets a prefix and own set of tables

NESTED_<PREFIX>_REFS
<b>name</b> VARCHAR(100) PRIMARY KEY
<b>commit</b> VARCHAR(40) NOT NULL

Branch names and the last commit in them  
are kept in REFS table

NESTED_<PREFIX>_TREES
<b>id</b> VARCHAR(40) PRIMARY KEY

All active documents for each commit are  
stored in TREES and TREEITEMS table

NESTED_<PREFIX>_TREEITEMS
<b>id</b> SERIAL PRIMARY KEY
<b>name</b> VARCHAR(40) NOT NULL
<b>blob</b> VARCHAR(40) NOT NULL
<b>tree</b> VARCHAR(40) NOT NULL

JSON document ID link to the JSON content  
is kept in TREEITEMS table

NESTED_<PREFIX>_COMMITTS
<b>id</b> VARCHAR(40) PRIMARY KEY
<b>datetime</b> VARCHAR(29) NOT NULL
<b>author</b> VARCHAR(40) NOT NULL
<b>message</b> VARCHAR(255) NOT NULL
<b>tree</b> VARCHAR(40) NOT NULL
<b>parent</b> VARCHAR(40)
<b>merge</b> VARCHAR(40)

All CRUD operations are implemented using commit.  
Each commit is associated with:  
a TREE and previous COMMIT

NESTED_<PREFIX>_TAGS
<b>id</b> VARCHAR(40) PRIMARY KEY
<b>commit</b> VARCHAR(40) NOT NULL
<b>datetime</b> VARCHAR(29) NOT NULL
<b>author</b> VARCHAR(40) NOT NULL
<b>message</b> VARCHAR(255) NOT NULL

TAGS can be created from any commit

NESTED_<PREFIX>_BLOBS
<b>id</b> VARCHAR(40) NOT NULL
<b>value</b> TEXT/JSONB NOT NULL

Every version of JSON document is kept as immutable in BLOBS table.  
ID is generated from the JSON content.

