

DB Schema

Projects Table

- id: Primary key, auto-incremented integer.
- name: Name of the project, must be unique.

Files Table

- id: Primary key, auto-incremented integer.
- project_id: Foreign key referencing projects(id).
- filename: Name of the file.
- text: Extracted text from the file.

Chunks Table

- id: Primary key, auto-incremented integer.
- file_id: Foreign key referencing files(id).
- chunk_text: The text content of the chunk.
- chunk_embedding: The embedding of the chunk stored as JSON.

Annoy Indexes Table

- id: Primary key, auto-incremented integer.
- project_id: Foreign key referencing projects(id).
- index_blob: The serialized Annoy index stored as a BLOB.

Queries

```
CREATE TABLE projects (  
id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(255) UNIQUE NOT NULL );
```

```
CREATE TABLE files (  
id INT AUTO_INCREMENT PRIMARY KEY,  
project_id INT,  
filename VARCHAR(255),  
text LONGTEXT,  
FOREIGN KEY (project_id) REFERENCES projects(id) );
```

```
CREATE TABLE chunks (  
id INT AUTO_INCREMENT PRIMARY KEY, file_id INT,  
chunk_text LONGTEXT,  
chunk_embedding JSON,  
FOREIGN KEY (file_id) REFERENCES files(id) );
```

```
CREATE TABLE annoy_indexes (  
id INT AUTO_INCREMENT PRIMARY KEY,  
project_id INT,  
index_blob LONGBLOB,  
FOREIGN KEY (project_id) REFERENCES projects(id) );
```