

# CS 421 – Natural Language Processing – Spring 2019

## Notes on SQLITE

To access and query the DataBases we have set up on movies, music and geography, respectively, we will use SQLITE as our database engine. This software is freeware, easy to install, and easy to use. If you want to start playing with it, and with the DBs we have assembled, you can download it from the website:

Sqlite download: <http://www.sqlite.org/download.html>

It can be integrated with many different programming languages, or invoked from the command line. Alternatively, SQLite Manager is a Firefox add-on that works very well.

### **Command Line Shell for SQLite**

If you prefer the command line shell to query the database, the documentation is at: <http://www.sqlite.org/cli.html>.

### **Drivers for SQLite**

SQLite is broadly supported by most modern programming languages: Java, Python, php, etc. Many third party drivers have been written to operate on data in SQLite databases by programming. SQLiteJDBC is one of the SQLite drivers for Java:

<https://bitbucket.org/xerial/sqlite-jdbc>

pysqlite is one of the drivers for Python:

<https://pypi.python.org/pypi/pysqlite>

You can choose any appropriate driver according to your implementation language.

### **GUI for SQLite**

If you need a Graphic User Interface(GUI), SQLite Manager, which is a Firefox extension, is a good choice. You can download and install it from the website:

<https://addons.mozilla.org/en-US/firefox/addon/sqlite-manager-webext/> You need to download and install Firefox first if you don't already have it.