

ECEN 489: Data Management and Cloud Services

Task 4 – Data Management

1 SQLite

SQLite is a software library that implements a self-contained, serverless, SQL database engine. It is used extensively, and it ships with the Android operating system. Furthermore, the source code for SQLite is in the public domain.

`http://www.sqlite.org`

Unlike most SQL databases, SQLite does not require a separate server process; it reads and writes directly to disk files. There is a C/C++ interface to SQLite, namely `sqlite3`.

Action Items

- **Download and Install:** SQLite.
`http://www.sqlite.org/download.html`
- **Read:** The SQLite Quick Start Guide.
`http://www.sqlite.org/quickstart.html`
`http://www.sqlite.org/sqlite.html`

Proficient Test

1. Using command-line tools, create a new database. Add and edit entries. Search and display the content of your database.
2. Employ a GUI to display the content of the database.
`https://addons.mozilla.org/en-US/firefox/addon/sqlite-manager/`
3. (Optional) Repeat Step 1 on an Android phone using `SQLiteOpenHelper` and `SQLiteDatabase`.
`import android.database.sqlite.SQLiteDatabase;`
`import android.database.sqlite.SQLiteOpenHelper;`