

### ASSIGNMENT 3

Aim : Study the SQLite database and its use and installation

Problem Statement : • Study SQLite database and its uses .  
• Elaborate on building and installing SQLite

Objective :

- To study SQLite database and its uses
- To study installation and configuration of SQLite database

Theory :-

SQLite -

- SQLite is self contained, highly reliable, embedded, full featured, public domain SQL database engine . It is the most used database engine in the world .
- SQLite is a RDBMS contained in C programming library . In contrast to many other DBMS , SQLite is not a client server database engine . Rather it is embedded into the end program
- SQLite is ACID compliant and implements most of the SQL standard using a dynamically and weakly typed SQL syntax that doesn't guarantee the domain integrity .

Installing SQLite :-

```
$ sudo apt-get install sqlite3 libsqlite3-dev
```

Check Installation :-

```
$ sqlite3
```

To quit :-

\$sqlite &gt ; quit

Go to desired folder and create database :-

\$ sqlite3 database-name.db

Check database creation :-

\$ sqlite &gt ; databases

Uses of SQLite :-

- Embedded devices and internet of things
- Application file format
- Websites
- Data Analysis
- Cache for enterprise data
- Server-side database
- File archives
- Replacement for adhoc disk files

Conclusion :

I studied installation steps of SQLite database and configuration and uses of it.