# SQLite compilation from source code 🙂 (Linux OS)

## Process-01:

* At first, download the source code zip (sqlite-amalgamation) file from this page <https://www.sqlite.org/download.html>
* cd Downloads/
* ls (to see the source code zip in Downloads folder)
* unzip sqlite-amalgamation-3420000.zip (to unzip the file)
* cd sqlite-amalgamation-3420000/
* ls
* gcc shell.c sqlite3.c -lpthread -ldl -lm -o sqlite3 (compilation command)
* gcc -DSQLITE\_THREADSAFE=0 shell.c sqlite3.c -ldl -lm -o sqlite3 ( this is prolly not be needed but i did for thread-safe or whatever i dunno)
* ls ( see sqlite folder and executable sqlite)
* ls -alh
* ./sqlite3 ( set up sqlite3)
* ./sqlite first.db ( creating a database)
* .databases to see the created database pathname ( amnei dekhte paro)
* CREATE TABLE Students(First\_Name CHAR NOT NULL, Last\_Name CHAR NOT NULL, Roll NUMBER NOT NULL PRIMARY KEY,Email CHAR NOT NULL); // i created a table named Students
* .tables ( to check whether the table is created or not)
* INSERT INTO Students(First\_Name, Last\_Name, Roll, Email) VALUES("Shifat Jahan","Shifa",1301,"[bsse1301@iit.du.ac.bd](mailto:bsse1301@iit.du.ac.bd)"); // i inserted data into the table
* SELECT \* from Students;

Helping link: <https://www.sqlite.org/howtocompile.html>

## Process-02: ( from github )

* Cd .. ( moving to the folder i will download the source code)
* git clone <https://github.com/sqlite/sqlite.git> ( git cloning of the sqlite repo)
* ls ( see the sqlite folder)
* cd sqlite
* ls
* mkdir bld
* cd bld
* ../configure ( onk time nibe )
* make
* make sqlite3.c ( message should be sqlite3 is up to date)
* ls ( see sqlite3 folder)
* ./sqlite3
* ./sqlite3 first.db ( creating database)
* Creating, inserting and viewing the table:

sqlite> CREATE TABLE just(

(x1...> id NUMBER NOT NULL,

(x1...> roll NUMBER NOT NULL

(x1...> );

sqlite> .tables

just language languages

sqlite> INSERT INTO just

...> VALUES(1,1301);

sqlite> SELECT \* FROM just;

1|1301

### caution: in SQL command in sqlite3 prolly beshi bejaila. SELECT and FROM capital ei likhte hobe though oracle e ami small e run koresilm.

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