

SQLite Session

The following screen session shows reading in a CSV file, *nytData.csv*, into an **sqlite3** database and doing SQL operations on it.

Blue font shows commands you type in.

```
linux4:~/ $ sqlite3
SQLite version 3.8.7.1 2014-10-29 13:59:56
Enter ".help" for usage hints.
Connected to a transient in-memory database.
Use ".open FILENAME" to reopen on a persistent database.
sqlite> CREATE TABLE nyt1(Age int, Gender int, impressions int, clicks int, Signed_In int);
sqlite> .mode csv
sqlite> .header on
sqlite> .import nyt1.csv nyt1
sqlite> select * from nyt1 LIMIT 5;
Age,Gender,impressions,clicks,Signed_In
Age,Gender,Impressions,Clicks,Signed_In
36,0,3,0,1
73,1,3,0,1
30,0,3,0,1
49,1,3,0,1
sqlite> delete from nyt1 where Age='Age';
sqlite> select * from nyt1 LIMIT 5;
Age,Gender,impressions,clicks,Signed_In
36,0,3,0,1
73,1,3,0,1
30,0,3,0,1
49,1,3,0,1
47,1,11,0,1
sqlite> select count(*) from nyt1;
count(*)
458441
sqlite> select count(*) from nyt1 where Gender in (select 1) and Signed_In not in (select 0);
count(*)
168265
sqlite> select count(*) from nyt1 where Gender in (select 0) and Signed_In not in (select 0);
count(*)
153070
sqlite> select max(Age) from nyt1 where Gender in (select 0) and Signed_In not in (select 0);
max(Age)
108
sqlite> select max(Age) from nyt1 where Gender in (select 1) and Signed_In not in (select 0);
max(Age)
107
sqlite> .save nyt1.db
sqlite> .exit
```

First row of csv file was read in as data – we need to fix that. I don't know if there is a better way

Use single quotes, not double quotes!
Double quotes will wipe everything off!
<http://stackoverflow.com/questions/13587314/>

```

sqlite> .help
.backup ?DB? FILE      Backup DB (default "main") to FILE
.bail on|off           Stop after hitting an error.  Default OFF
.clone NEWDB           Clone data into NEWDB from the existing database
.databases             List names and files of attached databases
.dump ?TABLE? ...     Dump the database in an SQL text format
                      If TABLE specified, only dump tables matching
                      LIKE pattern TABLE.
.echo on|off          Turn command echo on or off
.eqp on|off           Enable or disable automatic EXPLAIN QUERY PLAN
.exit                 Exit this program
.explain ?on|off?     Turn output mode suitable for EXPLAIN on or off.
                      With no args, it turns EXPLAIN on.
.fullschema           Show schema and the content of sqlite_stat tables
.headers on|off       Turn display of headers on or off
.help                 Show this message
.import FILE TABLE   Import data from FILE into TABLE
.indices ?TABLE?      Show names of all indices
                      If TABLE specified, only show indices for tables
                      matching LIKE pattern TABLE.
.load FILE ?ENTRY?    Load an extension library
.log FILE|off         Turn logging on or off.  FILE can be stderr/stdout
.mode MODE ?TABLE?   Set output mode where MODE is one of:
                      csv      Comma-separated values
                      column   Left-aligned columns.  (See .width)
                      html     HTML <table> code
                      insert   SQL insert statements for TABLE
                      line     One value per line
                      list     Values delimited by .separator string
                      tabs     Tab-separated values
                      tcl      TCL list elements
.nullvalue STRING    Use STRING in place of NULL values
.once FILENAME        Output for the next SQL command only to FILENAME
.open ?FILENAME?     Close existing database and reopen FILENAME
.output ?FILENAME?   Send output to FILENAME or stdout
.print STRING...     Print literal STRING
.prompt MAIN CONTINUE Replace the standard prompts

```