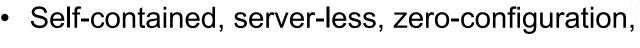
In this lecture, we will discuss...

- ♦ Which database is Rails using?
- ♦ How to view the database



SQLite

♦ Rails uses SQLite for database by default



transactional, relational SQL database engine



CLAIM: Most widely deployed SQL database engine in the world











Database Setup: config/database.yml

♦ Which database are we using?

```
FOLDERS
                                  database.yml
# SOLite version 3.x
  ▶ ( ) app
                                  gem install sqlite3
  ▶ [ bin
  Ensure the SQLite 3 gem is defined in your Gemfile
                                  gem 'sqlite3'
   ▶ ☐ environments
   ▶ (☐ initializers)
                           ▼ default: &default
   ▶ ☐ locales
                                adapter: sqlite3
                                pool: 5
      application.rb
                                timeout: 5000
      B boot.rb
                           ▼ development:
      database.yml
                                <<: *default
      nvironment.rb
                                database: db/development.sqlite3
      🕞 routes.rb
      secrets.yml
  ▼ 🗁 db
   ▶ ( ) migrate
      1 development.sqlite3
```



Database Console: rails db

```
~/fancy_cars$ rails db
SQLite version 3.8.5 2014-08-15 22:37:57
Enter ".help" for usage hints.
sqlite> .help
.backup ?DB? FILE Backup DB (default "main") to FILE
.bail onloff 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 onloff Turn command echo on or off.
.exit
                     Exit this program
.explain ?onloff?
                     Turn output mode suitable for EXPLAIN on or off.
                       With no args, it turns EXPLAIN on.
headers onloff.
                     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
```



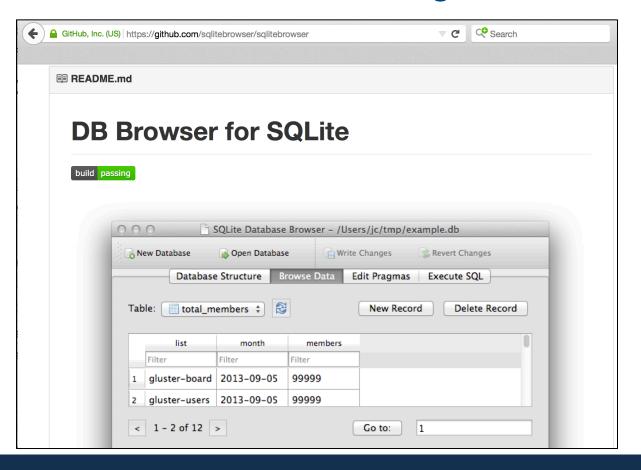
Some useful SQLite options

♦ Good idea: turn headers on and column mode

```
~/fancy_cars$ rails db
SQLite version 3.8.5 2014-08-15 22:37:57
Enter ".help" for usage hints.
salite> .tables
                  schema_migrations
cars
sqlite> .headers on
sqlite> .mode columns
sqlite> select * from cars;
id
           make
                       color
                                               created_at
                                                                           updated_at
                                   year
           Cadillac Black
                                   2014
                                               2015-09-07 16:48:07.474368 2015-09-07 16:48:07.474368
           Infiniti
                                               2015-09-07 16:48:33.290148 2015-09-07 16:48:33.290148
                    Silver
                                   2013
           BMW
                       Blue
                                   2015
                                               2015-09-07 16:48:49.017993 2015-09-07 16:48:49.017993
sqlite> .exit
```



Other Tools for Viewing SQLite





Summary

- ♦ Rails uses SQLite by default
- ♦ Built-in command-line DB viewer

What's Next?

♦ Introduction to Migrations

