INTRODUCTION

▤ Why use a Database:

- Databases are accessible in **any programming language**, meaning you can communicate large amount of datas between apps.

- Querying a database is really fast as it is **relation based**. So looking for all the items in a database matching specific criteria is lighting fast.

- Database are **portable** and **secure**.

WTF is seems so burried and inaccessible:

- At first databases concept if not explained right **seems** complex. The other reason for that is the amount of different uses for databases leading in different ways to explain it.

- If your just starting I suggest you to use both the **terminal** and **a visual representation (GUI)** of your database.

If your using it for the web using PHP or else, there should be a webapp to view your databases. For desktop your have MYSQL Workbench, SQL Workbench (opensource/crossplatform and use drivers for each database frameworks, hateful UI) or Postico ($). Specific to **mac** and **Postgre** you have PSequel. I personaly use pgAdmin

Install on mac

Using homebrew:

`brew install postgresql` this installs postgre

`brew services start postgresql` this runs the daemon

`createdb` -- create a database <user>

Create Password:

`psql`

`\password <user>`

`\q` to quit

Now to connect as the user

`psql -U <user> -h localhost`

To connect to a database

`\c <database>`

LINKS

SQLAlchemy ORM for Beginners	Nice explanation of accesing database in Python for Beginners

Queries

SELECT col1, col2, col3, ... **FROM** table1	filter your columns
WHERE col4 = 1 **AND** col5 = 2	filter the rows
ORDER BY col2	order of the results
BETWEEN a **AND** b	limit the range, the values can be numbers, text, or dates

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