

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 personally use **pgAdmin**

LINKS

[SQLAlchemy ORM for Beginners](#) Nice explanation of accesing database in Python for Beginners

Queries

SELECT col1, col2, col3, ... filter your columns
FROM table1

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

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 <us er>
\q to quit
```

Now to connect as the user

```
psql -U <us er> -h localhost
```

To connect to a database

```
\c <da tab ase>
```

