

# Databases

Storage structure data

Engine: queries (Create-Read-Update-Delete),  
security

Two kinds of databases:

SQL - MySql, Sql Express, MariaDb, Sqlite

No-SQL - MongoDB, Azure, Firebase

Products

f1, f2, X?

A, B, NULL

C, H, 43

A, B, NULL

A, B, NULL

A, B, NULL

A, B, NULL

A, B, NULL

A, B, NULL

A, B, NULL

A, B, NULL

A, B, NULL

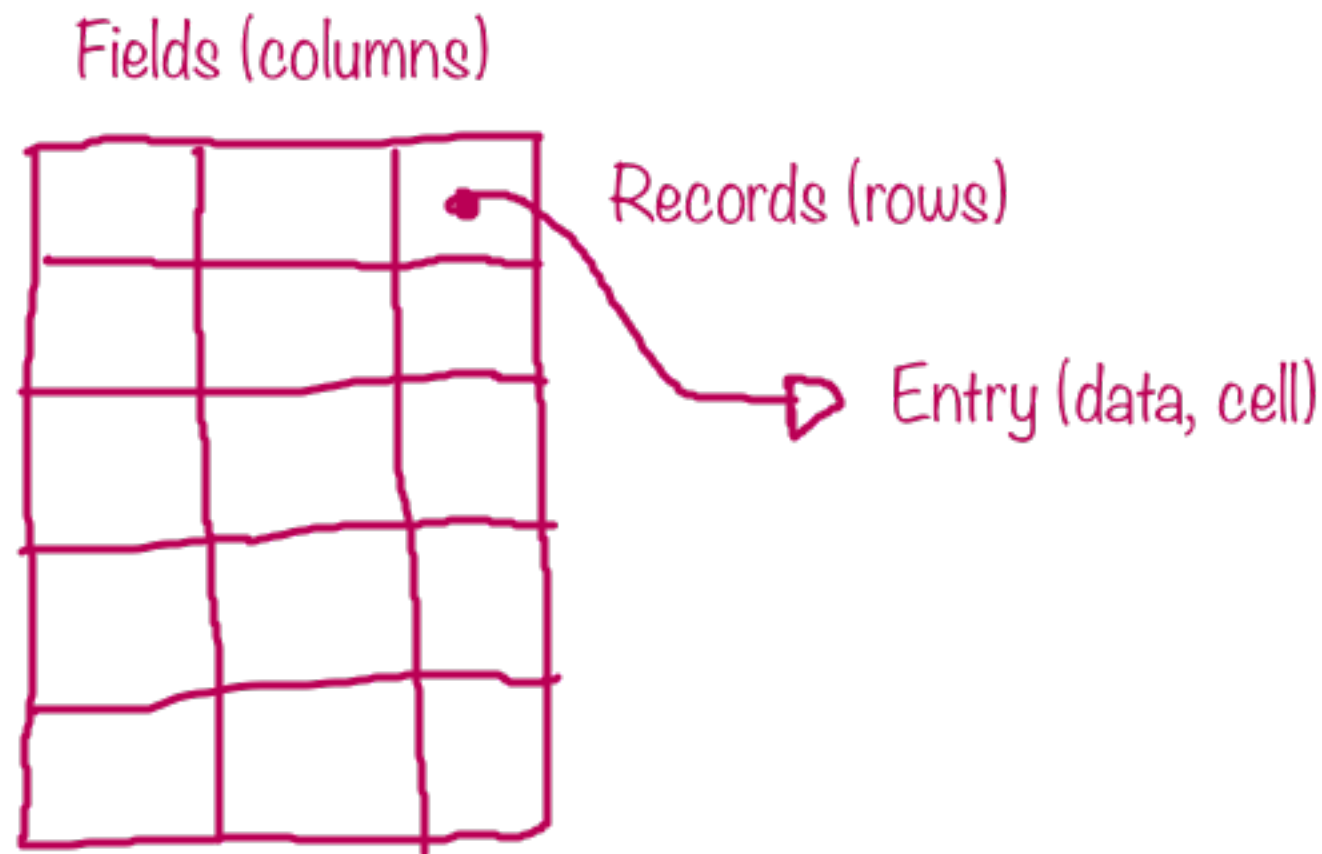
A, B, NULL

## SQL Database (Structured Query Language)

\* Information based on tables and relations

\* Query Language: select \* from my\_table;

To get data we need realize complex queries into a several tables



People

Id | Name | Age | Genere | Address?

0 | Diana | 21 | Female | @105

1 | Edna | 32 | Female | @47

Addresses

Id | Street | Number | Neigh | ...

47 | Reforma | 222 | Roma Norte | ....

...

105 | Av. X | 123 | Condesa | ...

# NO-SQL Database

- \* Storage information into "documents"
- \* Queries human-friendly



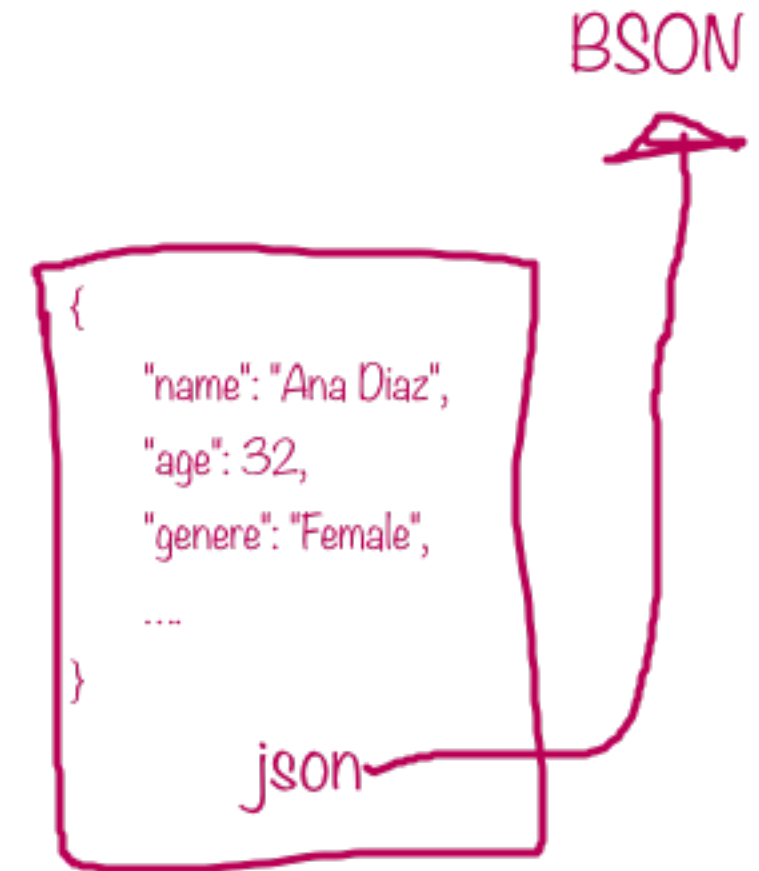
database (storage of collections)

cisco



collection (group of documents)

people



document (fragment of data grouped)

\_id (unique id)

