github.com/jsonmaur/node-db2-guided



Database Schema Design

12.17.2020

Database Management System (DBMS)

The software engine and SQL dialect used to store and access our data.

Relational

- SQLite
- PostgreSQL
- MySQL
- Oracle

Non-Relational

- MongoDB
- DynamoDB
- Cassandra
- Redis

Designing a Database Schema

- What fields, or columns, does a table need?
- What should the identifying column (or primary key) be?
- What type of data do we expect for each column?
- Are there any restrictions needed for each column?

Data Definition Language (DDL)

SQL commands that are used to modify the database structure.

Database Schema Migration

Code written to a file that programmatically changes a database schema over time. Such as adding new tables, new columns, changing data types, etc.

migrations/1.js

- Creates the fruits table

migrations/2.js

- -Adds a column to the fruits table
- -Removes a default value from an existing column

migrations/3.js

- -Create a new vegetables table
- -Deletes a column from the fruits table