mysql basics

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> 💻 Summary of databases and MySQL

Recall

- What is a relational database?

- What is SQL?

- What is the MySQL Workbench?

Introduction to Databases

Relational databases are consisted of tables containing data entries (stored tabular data). Relational algebra allows the use of mathematical logic, and create a relation between tables in a way that allows us to retrieve data efficiently. Each table has a specific meaning and contains data characterizing it. The collection of these tables are what make a relational database.

> 📘 `Entity` - the smallest unit that can contain a meaningful set of data.

The rows represent horizontal entities, and the columns represent vertical entities. The table is an entity on its own, and is also referred to as a database object.

Introduction to SQL

SQL is programming language that is used to execute commands which allow the creation and manipulation of a relational database. It is a declarative programming language.

MySQL Workbench

MySQL Workbench is a user interface for manipulating and implementing the SQL language on a relational database.

The `Schema` section in the navigator contains all available databases, their tables, and other tools.

Beneath the tabs section there are icons for adding various items and objects.