


WEEK 2

Understanding **Databases, and SQL**

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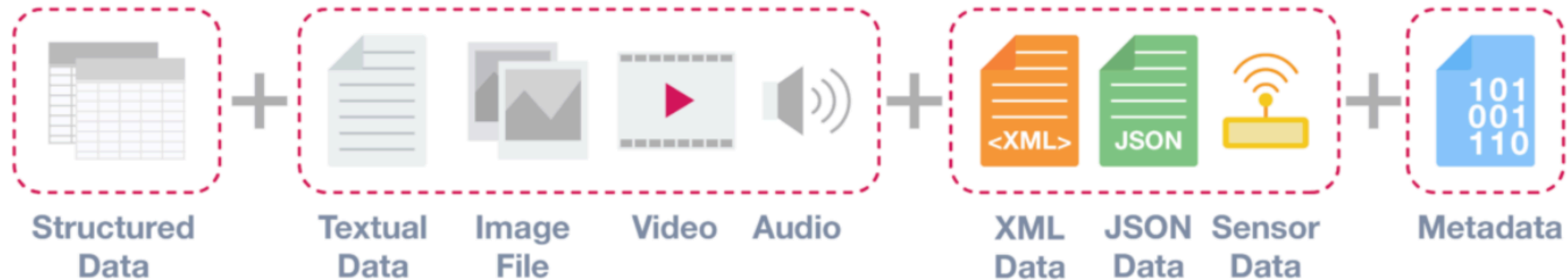
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Database



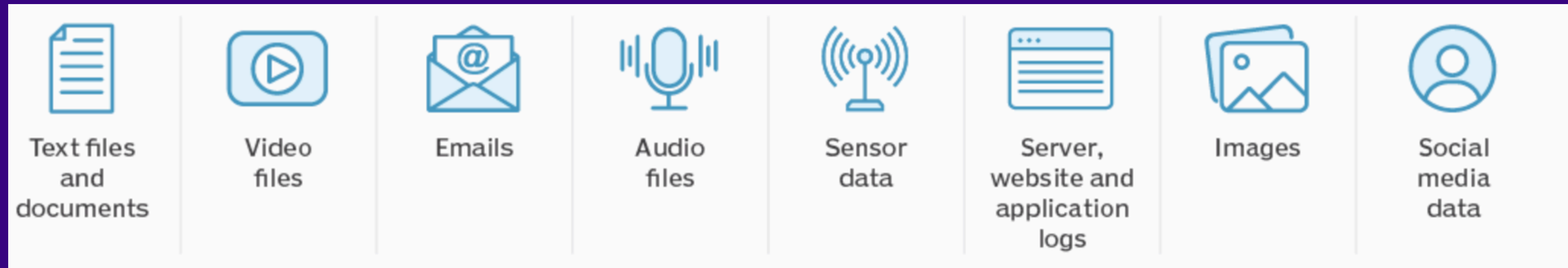
An organized collection of information stored systematically to allow efficient access, modification, and management. It can handle different types of content, such as text, images, and numbers, depending on its structure.

Structured Data



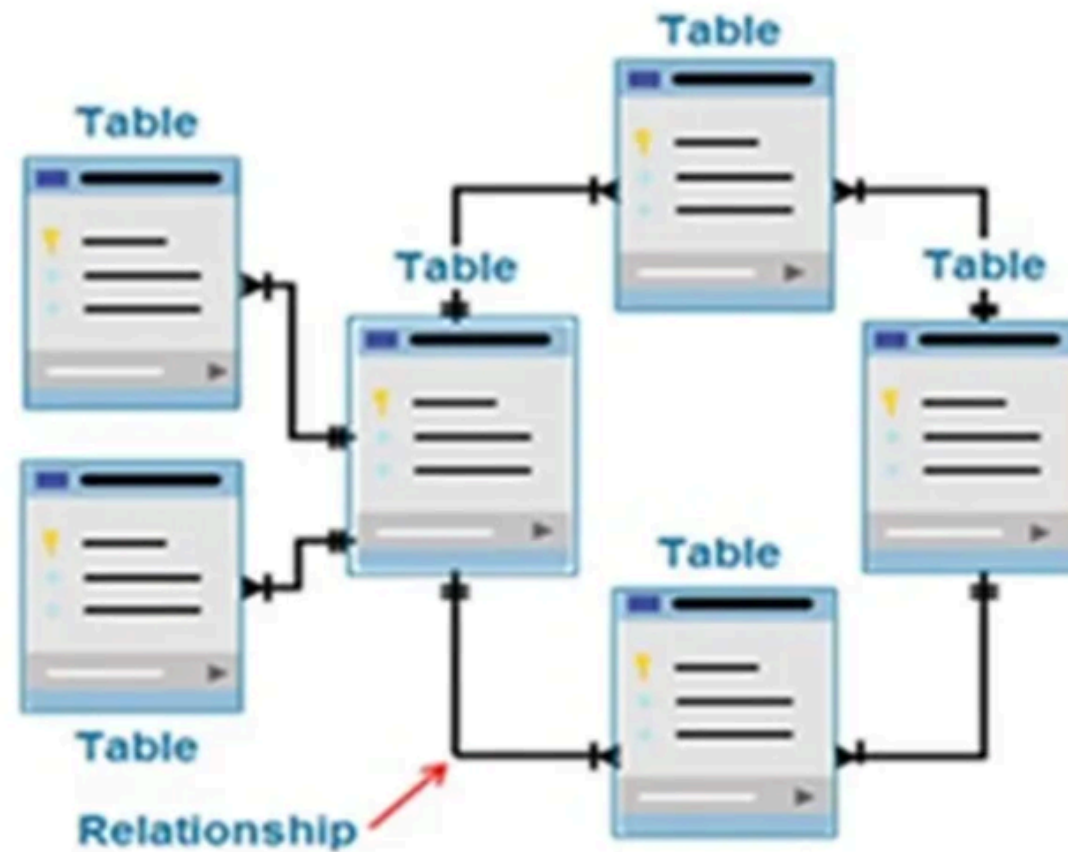
Information arranged in a defined format, typically in rows and columns.
This format makes it easy to identify, analyze, and process individual pieces of information.

Unstructured Data



Information that lacks a formal arrangement or predefined structure. It can include content like text files, multimedia, and documents, which are harder to analyze due to their irregular format.

What is RDBMS?

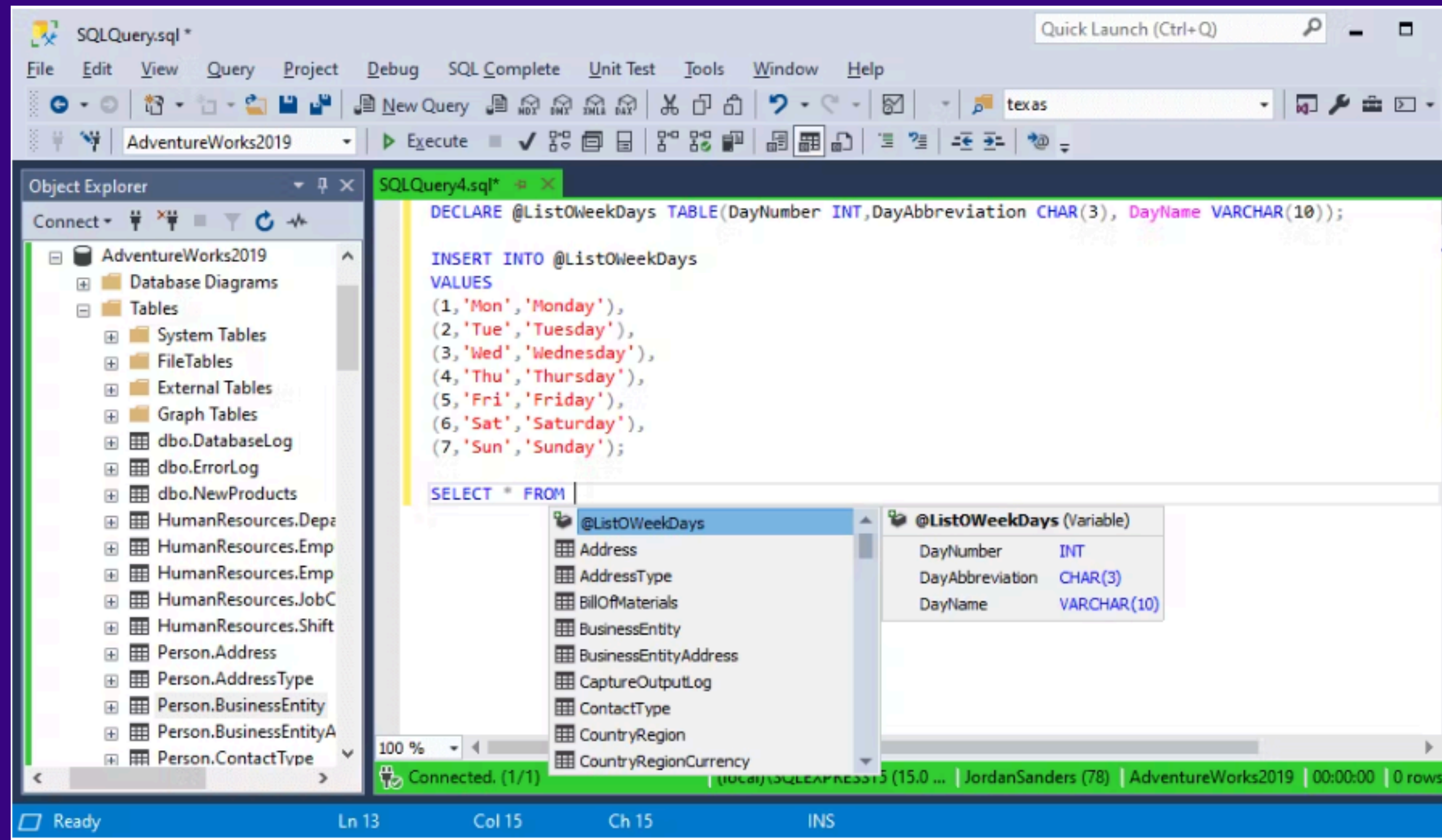


RDBMS

Relational Databases

A Relational Database Management System (RDBMS) is software that manages structured data organized in relational databases. It uses tables with rows and columns to store and retrieve data efficiently.

What is SQL?



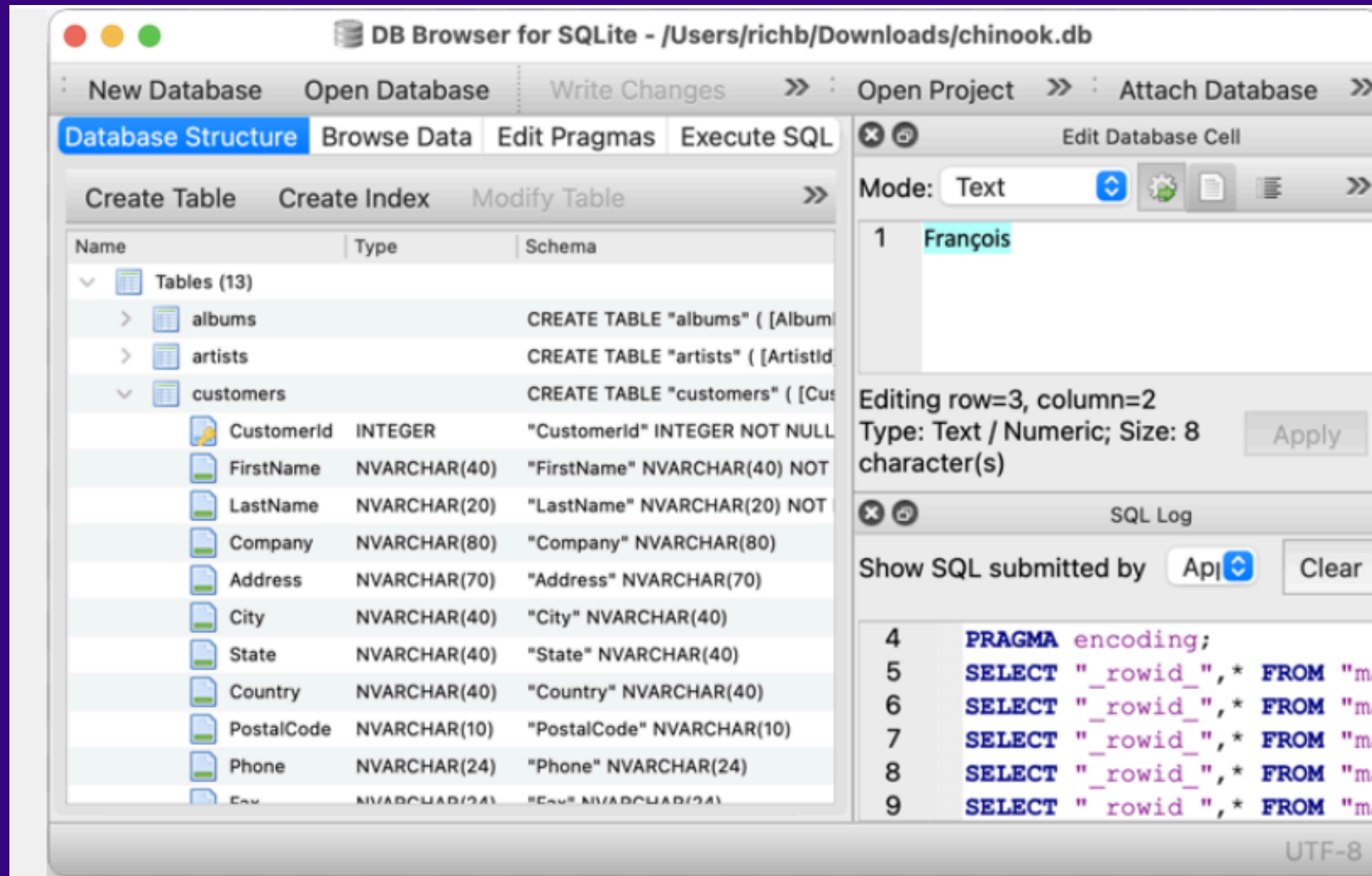
SQL (Structured Query Language) is a programming language for managing and manipulating data in relational databases.

SQL Flavours



SQL flavours are variations of the SQL language, customized for specific database management systems (RDBMS). These flavours often include unique features and syntax extensions while maintaining core SQL functionalities.

What is SQLite?



SQLite is a lightweight, standalone SQL database engine. It is self-contained and highly portable, making it ideal for learning and small-scale applications.

Note: The SQLite flavour will be used for this course.

Next Steps

Homework:

- Practice setting up an SQLite database
- Complete Week 2 Quiz