the Master Course

{CODENATION}

An introduction to Databases.

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What is a database?

A database is quite simply a computerised system that stores information.



What is a database?

Databases can hold structured or non-structured data.



Think of a database like a filing cabinet, it could hold information on employees, all with the same structured information in alphabetical order.

Or, it could hold all of the mail you've received in a year, all with different information with no real order to it.

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In order to interact with a database we need to use something called a Database Management System or DBMS.



What is a DBMS?

A DBMS is essentially a way for us to manipulate the contents of a database.

A DBMS will provide a variety of ways to manage the data in our database.



Let's quickly create our own pseudo database and DBMS in our CLI.



There are many different DBMS's to choose from, at this point in the course we are going to use MongoDB.



MongoDB is a NoSQL database, which allows us to store structured or non-structured data.



Local vs Cloud-Hosted?
We have two main options with databases, we can either host them on our Local Machine or use a Cloud Hosted option.



Local Database

A local database is stored on our personal machine, only accessible via a direct connection to our hardware.

The speed and efficiency of the database is then governed by the quality of our hardware.



Cloud Hosted Database

A cloud hosted database is available through the internet, it is hosted on a collection of servers elsewhere, and isn't limited by the speed of our hardware, rather it is governed by the speed of both our internet and the cloud provider.

