## **NoSQL vs SQL**

## Here are some key differences between SQL and NoSQL databases

## ***Data Model:***

## NoSQL databases are often designed to be more flexible and scalable than traditional SQL databases.

## ***Schema:***

## …SQL databases have a predefined schema, which means that the structure of the data (table names, column names, data types, etc.)

## …NoSQL databases are schema-less or schema-flexible. They allow you to insert data without first defining its structure.

## ***Scalability:***

## ***…SQL:*** Scaling SQL databases can be challenging, especially when dealing with large amounts of data. Vertical scaling (adding more power to an existing machine) is a common approach, but it has limits.

## ***…NoSQL:*** NoSQL databases may follow the CAP (Consistency, Availability, Partition Tolerance) theorem.

## **ETC…**

## It's important to note that both SQL and NoSQL databases have their strengths and weaknesses, and the choice between them depends on the specific requirements of the application or system being developed. In some cases, a hybrid approach (using both types of databases in different parts of the system) may be appropriate.