

CHECKPOINT PRESENTATION

A person with long brown hair is holding a black smartphone in their right hand, looking at the screen. The background is blurred, showing other people in a public setting. The text 'Discussing SQL & NoSQL' is overlaid on the right side of the image.

Discussing SQL & NoSQL

Comparison between NoSQL to SQL



About SQL

There are two types of SQL functions, aggregate functions, and scalar(non-aggregate) functions. Aggregate functions operate on many records and produce a summary, works with GROUP BY whereas non-aggregate functions operate on each record independently.



About mongoDB

NoSQL Database is a non-relational Data Management System, that does not require a fixed schema. It avoids joins, and is easy to scale. The major purpose of using a NoSQL database is for distributed data stores with humongous data storage needs. NoSQL is used for Big data and real-time web apps.

DIFFERENCE BETWEEN MONGODB & SQL

5 POINTS OF DIFFERENCE:



Data Storage Model

SQL

Tables with fixed rows and columns

mongodb

Document: JSON documents, Key-value: key-value pairs, Wide-column: tables with rows and dynamic columns, Graph: nodes and edges

Schemas

Rigid

Flexible

Scaling

Vertical(scale-upwith a larger server)

Horizontal (scale-out across commodity servers)

Joins

- Typically required

Typically not required

Data to Object Mapping

Requires ORM (object-relational mapping)

Many do not require ORMs. MongoDB documents map directly to data structures in most popular programming languages.

Thank You