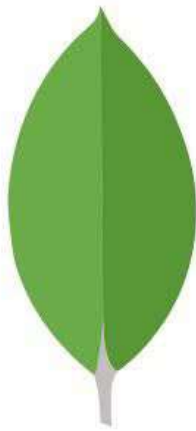


SQL vs MongoDB



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SQL

SQL (Structured Query Language) is a traditional Relational database management system (RDBMS).

MongoDB is a document-oriented NoSQL database.



MongoDB



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SQL

SQL uses a fixed schema, where the structure of the tables must be defined before data can be inserted.

MongoDB uses a dynamic schema, where documents can have different fields.



MongoDB





**SQL**

SQL uses a declarative query language.

MongoDB uses a more expressive query language based on JSON.

**MongoDB**

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**SQL**

SQL databases follow ACID properties (Atomicity, Consistency, Isolation and Durability).

NoSQL database follows the
Brewers CAP theorem (Consistency,
Availability and Partition tolerance).

**MongoDB**

**SQL**

In SQL, data is stored in tables with rows and columns.

In MongoDB, data is stored in collections of JSON-like documents.

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**SQL**

SQL is used in more traditional business applications.

MongoDB is often used in big data and real-time web applications

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**SQL**

SQL is optimized for complex joins and transactions.

MongoDB is optimized for scalability and high performance

**MongoDB**

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**SQL**

A great choice if you have structured data and need a traditional relational database.

An ideal choice if you have unstructured and/or structured data with the potential for rapid growth.

**MongoDB**

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