Manish Kumar Shah

SQL

Vs

MongoDB

mongoDB

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

MongoDB is a document-oriented NoSQL database.

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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 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.

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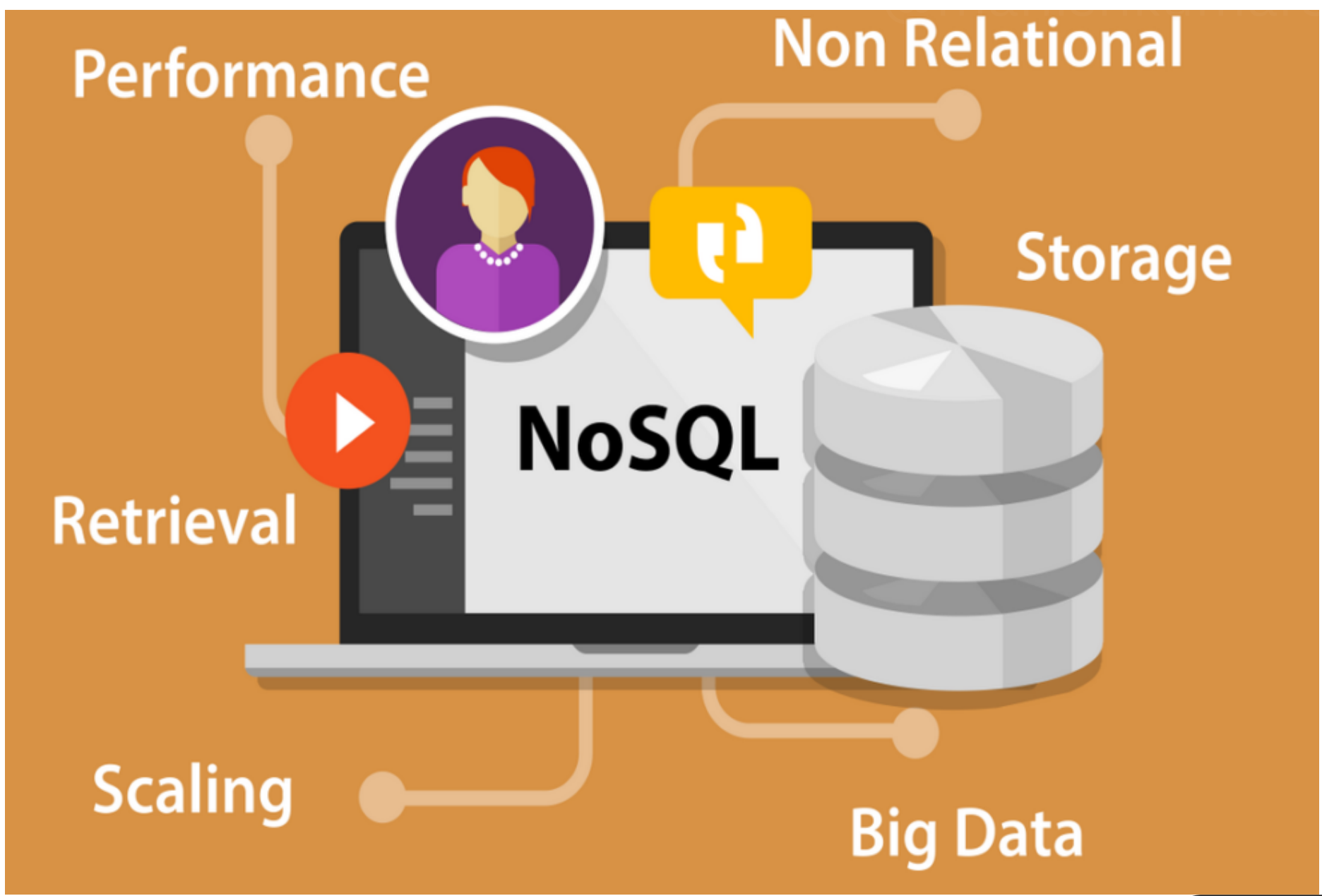
table
select
structured
query
SQL
system
database
management
language


Performance
Non Relational
Storage
NoSQL
Retrieval
Scaling
Big Data

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SQL is optimized for complex joins and transactions.

MongoDB is optimized for scalability and high performance.

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SQL supports a rich set of data types.

MongoDB has a limited set of data types.

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SQL uses a declarative query language.

MongoDB uses a more expressive query language based on JSON.

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

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

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SQL is used in more traditional business applications.

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

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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.

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