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Introduction to NoSQL Database

edureka (https://www.edureka.co/blog/author/lucifer/) Sep 15, 2014

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Introduction to NoSQL Database

NoSQL, known as Not only SQL database, provides a mechanism for storage and retrieval of data and is the next generation database. It has a distributed architecture with MongoDB and is open source. Most of the NoSQL are open source and it has a capability of horizontal scalability which means that commodity kind of machines could be added.

The capacity of your clusters can be increased. It is schema free and there is no requirement to design the tables and pushing the data to it. NoSQL provides easy replication claiming there are very less manual interventions in this. Once the replication is done, the system will automatically take care of fail overs.

The crucial factor about NoSQL is that it can handle huge amount of data and can achieve performance by adding more machines to your clusters and can be implemented on commodity hardware. There are close to 150 NoSQL databases in the market which will make it difficult to choose to choose the right pick for your system.

Why NoSQL?

There are different kinds of data that are structured, unstructured and semi-structured and hence RDBMS systems are not designed to manage these types of data in an efficient way. NoSQL databases come in to the picture and are capable to manage it. People today use different kinds of methodology and if you talk about the code velocity and implementation level, people wish to execute various activities at the same time. Talking about the traditional way, it was quite difficult in terms of taking care of the database and writing your application according to the database. So with the new NoSQL, things have become easier.

Benefits of NoSQL

NoSQL claims various benefits associated with its usage. From managing data to scalability, its use has increased drastically. Huge amount of data can be managed and then streamed. Different kinds of data like structured and semi-structured data can be analyzed and analytical activities can be performed.

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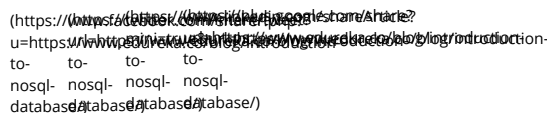
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Wide column stores- Wide column stores such as Cassandra and HBase are optimized for queries over large datasets, and store columns of data together, instead of rows.

ACID Property

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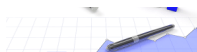
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Rajiv Chaudhuri ▾

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Dirk Bertels • a year ago ▾ ▾

The article makes it look like NoSql uses the ACID principles.
ACID principles relate to the Relational SQL Databases.
NoSql adheres to the BASE (Basically available, Soft State, Eventual consistency) principles.
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EdurekaSupport Mod ➔ Dirk Bertels • a year ago ▾ ▾

Hey Dirk Bertels, thanks for checking out our blog.
Sorry for the confusion. For more details on Nosql vs NoSql please refer to the below given image :



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From DBA side...I want to get more information about it being called as a free software or in what scenarios we'll need to purchase license... Responses are appreciated in advance.

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Yes you are correct Mohit! The product is completely free but if you are going to buy a Commercial product you will get more benefits like:

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Hope this helps!

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