Computer Science 2nd Year
Subject - 'DBMS'

The Advantages of NoSQL

There are several advantage of working with NoSQL databases such as MongoDB and Cassandra. The main advantage are High Scalability and High availability.

High Scalability :- NoSQL database such as MongoDB uses sharding for Horizontal scaling. Sharding is partitioning of data and placing machines is such as way that the order of the data is preserved. Vertical Scaling means adding more resources to the existing machine while horizontal scaling means adding more machines to handle the data. Vertical scaling is not that easy to Implement, on the other hand Horizontal scaling is easy to Implement. ~~Horizontal scaling is~~ Horizontal scaling database examples :- MongoDB, Cassandra etc. Because of this feature NoSQL can Handle Huge amount of Data, as the data grow NoSQL Scale Itself to Handle that data in effecient manner.

High availability :- Auto replication ~~feature~~ feature in MongoDB makes it highly available

because in case of any failure data replicates itself to the previous consistent state.

Types of No SQL database :

Here are the types of NOSQL database and the name of the database system that falls in the category. Mongo DB falls in the category of No SQL doccument based database.

Key value store :- Memcached, Redis, Coherence

Tabular :- Hbase, Big table, Accumulo.

Doccument based :- Mongo DB, Couch DB, Cloudant.

Appliation of NO SQL

1) When you want to store and Retrieve huge amount of data.

2) The relationship between the data you store is not that Important.

3) The data is not structured and changing over time.

4) Constraints and Joins support is not required at database level.

5) The data is growing continously and and you need to scale the database regular to handle the data.

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