

Lesson 6

NoSQL For Big Data

Big Data Solutions

- Needs scalable storage of terabytes and petabytes
- Dropping of support for database Joins, and storing data differently on several distributed servers (data nodes) together as a cluster

Big Data Solutions

- A solution, such as CouchDB, DynamoDB, MongoDB or Cassandra follow CAP theorem (with compromising the consistency factor) to make transactions faster and easier to scale
- A solution must also be partitioning tolerant.

Characteristics of Big Data NoSQL solution

- High and easy scalability
- Support to replication
- Distributable
- Usages of NoSQL servers
- Usages of open-source tools

Characteristics of Big Data NoSQL solution

- Support to schema-less data model
- Support to integrated caching
- No inflexibility

Comparison of NoSQL with SQL/RDBMS

- Table 3.7

Summary

We learnt uses of:

- No SQL Big Data Solution Characteristics
- Compare NoSQL data stores with SQL databases

End of Lesson 6 on **NoSQL For Big Data**