**CAP Theorem:-**

In theoretical computer science, CAP Theorem, also named Brewer’s Theorem after computer scientist Eric Brewer, states that it is impossible for a distributed data store to simultaneously provide more than two of the following three guarantees:-

* Consistency
* Availability
* Partition Tolerance

**Types of NoSQL Databases:-**

There are four types of NoSQL Database mentioned below:-

* Document Oriented
  + Mongo DB (when you have lots of json or bson data).
* Key Value Oriented
* Couch DB (key value pairs).
* Google’s Big Table Implementations(avoids joins completely to make your queries perform efficient).
* HBase
* Apache Cassandra
* Propritery Databases

**NoSQL Database:-**

* NoSQL stands for “Not Only SQL”.
* NoSQL database can be best described in terms of following Parameters:-
* Runs well on clusters.
* Open Source
* Schema Less
* Something that does not use a relational model. (this denotes that NoSQL Database will not use relational model concepts such as integrities, primary and foreign key etc.,)

**HBASE vs RDBMS:-**

* RDMS will perform JOINS whereas HBASE will not perform Joins
* RDMS can work only on Structured Data whereas HBASE can work on structured as well as Unstructured Data.
* RDMS will depend on Schemas whereas HBASE is schema less.
* RDMS will have constraints such as Primary Key, Foreign Key, Integrities whereas HBASE will work on concepts such as Rowkey, Column Family and columns.