1. Hbase can store  enable it to store and manage semi-structured data, which does not have any specified schema.
2. HBase architecture consists mainly of four components

HMaster:

* Plays a vital role in terms of performance and maintaining nodes in the cluster.
* HMaster provides admin performance and distributes services to different region servers.

Region server:

* It is responsible for serving and managing regions or data that is present in distributed cluster.
* The client requires HMaster help when operations related to metadata and schema changes are required.
* The region servers run on Data Nodes present in the Hadoop cluster.

Regions:

* HRegions are the basic building elements of HBase cluster that consists of the distribution of tables and are comprised of Column families
* It contains multiple stores, one for each column family.
* It consists of mainly two components, which are Memstore and Hfile.

Zookeeper:

* Zookeeper is a centralized monitoring server which maintains configuration information and provides distributed synchronization.
* Distributed synchronization is to access the distributed applications running across the cluster with the responsibility of providing coordination services between nodes.
* If the client wants to communicate with regions, the servers client has to approach ZooKeeper first.

1. Zookeeper:

 Zookeeper is a centralized monitoring server which maintains configuration information and provides distributed synchronization.Distributed synchronization is to access the distributed applications running across the cluster with the responsibility of providing coordination services between nodes. If the client wants to communicate with regions, the servers client has to approach ZooKeeper first.

Clients cannot communicate with the regionserver if the zookeeper is failed.

1. No. It is not necessary that region server be located on all DataNodes. Data nodes store data. Region server essentially buffer I/O operations; data is permanently stored on HDFS.
2. The easiest way to load data into Hbase is using Hive or Impala to perform a SQL join with those tools.