# **Session 10: HBASE BASICS**

# **Assignment 1**

**Task 1:**

**Explain the below concepts with an example in brief.**

1. **NoSQL data bases**

**Solution:**

NoSQL is an approach to database design that can accommodate a wide variety of data models, including key-value, document, columnar and graph formats. NoSQL, which stand for "not only SQL," is an alternative to traditional relational databases in which data is placed in tables and data schema is carefully designed before the database is built. NoSQL databases are especially useful for working with large sets of distributed data.

1. **Types of NoSQl databases**

**Solution:**

1. **CAP Theorem**

**Solution:**

1. **How many maximum number of columns can be added to HBase table?**

**Solution:**

1. **Why columns are not defined at the time of table creation in HBase?**

**Solution:**

1. **How does data get managed in HBase?**

**Solution:**

1. **What happens internally when new data gets inserted into HBase table?**

**Solution:**

**Task 2:**

1. **Create an HBase table named 'clicks' with a column family 'hits' such that it should be able to store last 5 values of qualifiers inside 'hits' column family.**

**Solution:**

**2. Add few records in the table and update some of them. Use IP Address as row-key. Scan the table to view if all the previous versions are getting displayed.**

**Solution:**