## Quiz 6:

- 01 Which of the scenarios below provide a strong case to choose HBase over a traditional RDMS (assuming data can be stored in rows/columns)?
- o Source data and business requirements may frequently change causing frequent addition / deletion of rows in the database
- o Schema of the database is well known in advance and it is unlikely to change over time

## X Source data and business requirements may frequently change causing frequent addition / deletion of table attributes in the database

- o All of the above
- 02 Which of the following requirements is considered one of the motivations for the birth of NoSQL technologies?
- o Need for strong consistency to support transactions in web applications

## X Need for an (relatively) easy to scale solution for data storage

- o Need for highly available data stores with rigid schemas
- o Need for highly available data stores with strong support for online transaction processing
- 03 Which of the following statements is true when comparing HBase vs. HDFS?

## X HDFS has poor performance (w.r.t. HBase) when random access to data is needed

- o HBase does great in batch processing (w.r.t. HDFS), specially for operations involving file scans (in file systems)
- o HBase is built on top of HDFS and therefore can only support operations for file scans and record-level insertion.
- o None of the above
- 04 Why do column-based NoSQL technologies typically store column families together on disk?
- o Mainly because is semantically convenient (columns in a column family are related to each other) when writing queries
- o Mainly because columns in a column family belong to the same HFile
- o Mainly because HTables are stored on separate files
- X Mainly for performance reason (for accessing data from disk)
- 05~A~BASE data sharing system provides the necessary mechanisms to guarantee that clients will get the latest version of data at any time T.
- o True
- X False