



# CCD-410<sup>Q&As</sup>

Cloudera Certified Developer for Apache Hadoop (CCDH)

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### QUESTION 1

Table metadata in Hive is:

- A. Stored as metadata on the NameNode.
- B. Stored along with the data in HDFS.
- C. Stored in the Metastore.
- D. Stored in ZooKeeper.

Correct Answer: C

By default, hive use an embedded Derby database to store metadata information. The metastore is the "glue" between Hive and HDFS. It tells Hive where your data files live in HDFS, what type of data they contain, what tables they belong to, etc.

The Metastore is an application that runs on an RDBMS and uses an open source ORM layer called DataNucleus, to convert object representations into a relational schema and vice versa. They chose this approach as opposed to storing this information in hdfs as they need the Metastore to be very low latency. The DataNucleus layer allows them to plugin many different RDBMS technologies.

Note:

\*

By default, Hive stores metadata in an embedded Apache Derby database, and other client/server databases like MySQL can optionally be used.

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features of Hive include:

Metadata storage in an RDBMS, significantly reducing the time to perform semantic checks during query execution.

Reference: Store Hive Metadata into RDBMS

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### QUESTION 2

You need to move a file titled "weblogs" into HDFS. When you try to copy the file, you can't. You know you have ample space on your DataNodes. Which action should you take to relieve this situation and store more files in HDFS?

- A. Increase the block size on all current files in HDFS.
- B. Increase the block size on your remaining files.
- C. Decrease the block size on your remaining files.
- D. Increase the amount of memory for the NameNode.



E. Increase the number of disks (or size) for the NameNode.

F. Decrease the block size on all current files in HDFS.

Correct Answer: D

### QUESTION 3

You are developing a MapReduce job for sales reporting. The mapper will process input keys representing the year (IntWritable) and input values representing product identifies (Text). Identify what determines the data types used by the Mapper for a given job.

A. The key and value types specified in the JobConf.setMapInputKeyClass and JobConf.setMapInputValuesClass methods

B. The data types specified in HADOOP\_MAP\_DATATYPES environment variable

C. The mapper-specification.xml file submitted with the job determine the mapper's input key and value types.

D. The InputFormat used by the job determines the mapper's input key and value types.

Correct Answer: D

The input types fed to the mapper are controlled by the InputFormat used. The default input format, "TextInputFormat," will load data in as (LongWritable, Text) pairs. The long value is the byte offset of the line in the file. The Text object holds the string contents of the line of the file.

Note: The data types emitted by the reducer are identified by setOutputKeyClass() and setOutputValueClass(). The data types emitted by the reducer are identified by setOutputKeyClass() and setOutputValueClass().

By default, it is assumed that these are the output types of the mapper as well. If this is not the case, the methods setMapOutputKeyClass() and setMapOutputValueClass() methods of the JobConf class will override these.

Reference: Yahoo! Hadoop Tutorial, THE DRIVER METHOD

### QUESTION 4

Given a directory of files with the following structure: line number, tab character, string:

Example: 1 abialkijfkaoasdfjksdlkjhweroij 2 kadfjhuwqounahagtnbvaswslmnbfgy 3 kjfteiomndscxeqalkzhtopedkfsikj

You want to send each line as one record to your Mapper. Which InputFormat should you use to complete the line: conf.setInputFormat (\_\_\_\_.class) ; ?



- A. SequenceFileAsTextInputFormat
- B. SequenceFileInputFormat
- C. KeyValueFileInputFormat
- D. BDBInputFormat

Correct Answer: C

<http://stackoverflow.com/questions/9721754/how-to-parse-customwritable-from-text-in-hadoop>

## QUESTION 5

Identify which best defines a SequenceFile?

- A. A SequenceFile contains a binary encoding of an arbitrary number of homogeneous Writable objects
- B. A SequenceFile contains a binary encoding of an arbitrary number of heterogeneous Writable objects
- C. A SequenceFile contains a binary encoding of an arbitrary number of WritableComparable objects, in sorted order.
- D. A SequenceFile contains a binary encoding of an arbitrary number key-value pairs. Each key must be the same type. Each value must be the same type.

Correct Answer: D

SequenceFile is a flat file consisting of binary key/value pairs.

There are 3 different SequenceFile formats:

Uncompressed key/value records.

Record compressed key/value records - only '\values\' are compressed here.

Block compressed key/value records - both keys and values are collected in '\blocks\' separately and compressed. The size of the '\block\' is configurable.

Reference: <http://wiki.apache.org/hadoop/SequenceFile>

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