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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:

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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

QUESTION 2

You have the following key-value pairs as output from your Map task:

(the, 1) (fox, 1) (faster, 1) (than, 1) (the, 1) (dog, 1)

How many keys will be passed to the Reducer's reduce method?

- A. Six
- B. Five



- C. Four
- D. Two
- E. One
- F. Three

Correct Answer: B

Only one key value pair will be passed from the two (the, 1) key value pairs.

QUESTION 3

You want to understand more about how users browse your public website, such as which pages they visit prior to placing an order. You have a farm of 200 web servers hosting your website.

How will you gather this data for your analysis?

- A. Ingest the server web logs into HDFS using Flume.
- B. Write a MapReduce job, with the web servers for mappers, and the Hadoop cluster nodes for reduces.
- C. Import all users' clicks from your OLTP databases into Hadoop, using Sqoop.
- D. Channel these clickstreams into Hadoop using Hadoop Streaming.
- E. Sample the weblogs from the web servers, copying them into Hadoop using curl.

Correct Answer: A

QUESTION 4

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 5

In a MapReduce job, the reducer receives all values associated with same key. Which statement best describes the ordering of these values?

- A. The values are in sorted order.
- B. The values are arbitrarily ordered, and the ordering may vary from run to run of the same MapReduce job.
- C. The values are arbitrary ordered, but multiple runs of the same MapReduce job will always have the same ordering.
- D. Since the values come from mapper outputs, the reducers will receive contiguous sections of sorted values.

Correct Answer: B

Note:

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Input to the Reducer is the sorted output of the mappers.

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The framework calls the application's Reduce function once for each unique key in the sorted order.

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Example:

For the given sample input the first map emits:

The second map emits: