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QUESTION 1

Which one of the following classes would a Pig command use to store data in a table defined in HCatalog?

- A. org.apache.hcatalog.pig.HCatOutputFormat
- B. org.apache.hcatalog.pig.HCatStorer
- C. No special class is needed for a Pig script to store data in an HCatalog table
- D. Pig scripts cannot use an HCatalog table

Correct Answer: B

QUESTION 2

Which Hadoop component is responsible for managing the distributed file system metadata?

- A. NameNode
- B. Metanode
- C. DataNode
- D. NameSpaceManager

Correct Answer: A

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 identifiers (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

Explanation: 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

MapReduce v2 (MRv2/YARN) is designed to address which two issues?

- A. Single point of failure in the NameNode.
- B. Resource pressure on the JobTracker.
- C. HDFS latency.
- D. Ability to run frameworks other than MapReduce, such as MPI.
- E. Reduce complexity of the MapReduce APIs.
- F. Standardize on a single MapReduce API.

Correct Answer: AB

Reference: Apache Hadoop YARN ?Conceptsand; Applications

QUESTION 5

Which two of the following statements are true about Pig's approach toward data? Choose 2 answers

- A. Accepts only data that has a key/value pair structure
- B. Accepts data whether it has metadata or not
- C. Accepts only data that is defined by metadata tables stored in a database
- D. Accepts tab-delimited text data only
- E. Accepts any data: structured or unstructured

Correct Answer: BE

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