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Hadoop-PR000007

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(Pig and Hive Developer)*

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QUESTION: 99

Which one of the following statements is FALSE regarding the communication between DataNodes and a federation of NameNodes in Hadoop 2.0?

- A. Each DataNode receives commands from one designated master NameNode.
- B. DataNodes send periodic heartbeats to all the NameNodes.
- C. Each DataNode registers with all the NameNodes.
- D. DataNodes send periodic block reports to all the NameNodes.

Answer: A

QUESTION: 100

A client application creates an HDFS file named foo.txt with a replication factor of 3. Identify which best describes the file access rules in HDFS if the file has a single block that is stored on data nodes A, B and C?

- A. The file will be marked as corrupted if data node B fails during the creation of the file.
- B. Each data node locks the local file to prohibit concurrent readers and writers of the file.
- C. Each data node stores a copy of the file in the local file system with the same name as the HDFS file.
- D. The file can be accessed if at least one of the data nodes storing the file is available.

Answer: D

QUESTION: 101

Examine the following Hive statements:

```
CREATE TABLE x (name STRING, age INT, zip INT, salary DOUBLE)
ROW FORMAT DELIMITED FIELDS TERMINATED BY
',';
LOAD DATA INPATH 'input/Files' OVERWRITE INTO TABLE x;
SELECT * FROM x SORT BY age;
```

Assuming the statements above execute successfully, which one of the following statements is true?

- A. Each reducer generates a file sorted by age
- B. The SORT BY command causes only one reducer to be used
- C. The output of each reducer is only the age column
- D. The output is guaranteed to be a single file with all the data sorted by age

Answer: A

QUESTION: 102

When can a reduce class also serve as a combiner without affecting the output of a MapReduce program?

- A. When the types of the reduce operation's input key and input value match the types of the reducer's output key and output value and when the reduce operation is both commutative and associative.
- B. When the signature of the reduce method matches the signature of the combine method.
- C. Always. Code can be reused in Java since it is a polymorphic object-oriented programming language.
- D. Always. The point of a combiner is to serve as a mini-reducer directly after the map phase to increase performance.
- E. Never. Combiners and reducers must be implemented separately because they serve different purposes.

Answer: A

QUESTION: 103

You want to run Hadoop jobs on your development workstation for testing before you submit them to your production cluster. Which mode of operation in Hadoop allows you to most closely simulate a production cluster while using a single machine?

- A. Run all the nodes in your production cluster as virtual machines on your development workstation.
- B. Run the hadoop command with the `-jt local` and the `-fs file:///options`.
- C. Run the DataNode, TaskTracker, NameNode and JobTracker daemons on a single machine.
- D. Run simldoop, the Apache open-source software for simulating Hadoop clusters.

Answer: C

QUESTION: 104

Which one of the following files is required in every Oozie Workflow application?

- A. job.properties
- B. Config-default.xml
- C. Workflow.xml
- D. Oozie.xml

Answer: C

QUESTION: 105

Workflows expressed in Oozie can contain:

- A. Sequences of MapReduce and Pig. These sequences can be combined with other actions including forks, decision points, and path joins.
- B. Sequences of MapReduce job only; on Pig on Hive tasks or jobs. These MapReduce sequences can be combined with forks and path joins.
- C. Sequences of MapReduce and Pig jobs. These are limited to linear sequences of actions with exception handlers but no forks.
- D. Iterntive repetition of MapReduce jobs until a desired answer or state is reached.

Answer: A

QUESTION: 106

Which best describes what the map method accepts and emits?

- A. It accepts a single key-value pair as input and emits a single key and list of corresponding values as output.
- B. It accepts a single key-value pairs as input and can emit only one key-value pair as output.
- C. It accepts a list key-value pairs as input and can emit only one key-value pair as output.
- D. It accepts a single key-value pairs as input and can emit any number of key-value pair as output, including zero.

Answer: D

QUESTION: 107

Which HDFS command copies an HDFS file named foo to the local filesystem as localFoo?

- A. `hadoop fs -get foo LocalFoo`
- B. `hadoop -cp foo LocalFoo`
- C. `hadoop fs -ls foo`
- D. `hadoop fs -put foo LocalFoo`

Answer: A

QUESTION: 108

Identify the tool best suited to import a portion of a relational database every day as files into HDFS, and generate Java classes to interact with that imported data?

- A. Oozie
- B. Flume
- C. Pig
- D. Hue
- E. Hive
- F. Sqoop
- G. fuse-dfs

Answer: F

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