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# HADOOP-PR000007<sup>Q&As</sup>

Hortonworks Certified Apache Hadoop 2.0 Developer (Pig and Hive Developer)

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### QUESTION 1

Can you use MapReduce to perform a relational join on two large tables sharing a key? Assume that the two tables are formatted as comma-separated files in HDFS.

- A. Yes.
- B. Yes, but only if one of the tables fits into memory
- C. Yes, so long as both tables fit into memory.
- D. No, MapReduce cannot perform relational operations.
- E. No, but it can be done with either Pig or Hive.

Correct Answer: A

Explanation: Note:

\*

Join Algorithms in MapReduce A) Reduce-side join B) Map-side join

C) In-memory join / Striped Striped variant variant / Memcached variant

\*

Which join to use? / In-memory join > map-side join > reduce-side join / Limitations of each? In-memory join: memory  
Map-side join: sort order and partitioning Reduce-side join: general purpose

### 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

Which best describes how TextInputFormat processes input files and line breaks?

- A. Input file splits may cross line breaks. A line that crosses file splits is read by the RecordReader of the split that contains the beginning of the broken line.



- B. Input file splits may cross line breaks. A line that crosses file splits is read by the RecordReaders of both splits containing the broken line.
- C. The input file is split exactly at the line breaks, so each RecordReader will read a series of complete lines.
- D. Input file splits may cross line breaks. A line that crosses file splits is ignored.
- E. Input file splits may cross line breaks. A line that crosses file splits is read by the RecordReader of the split that contains the end of the broken line.

Correct Answer: A

Reference: How Map and Reduce operations are actually carried out

#### QUESTION 4

In a MapReduce job with 500 map tasks, how many map task attempts will there be?

- A. It depends on the number of reduces in the job.
- B. Between 500 and 1000.
- C. At most 500.
- D. At least 500.
- E. Exactly 500.

Correct Answer: D

From Cloudera Training Course: Task attempt is a particular instance of an attempt to execute a task ?There will be at least as many task attempts as there are tasks ?If a task attempt fails, another will be started by the JobTracker ?Speculative execution can also result in more task attempts than completed tasks

#### QUESTION 5

What does Pig provide to the overall Hadoop solution?

- A. Legacy language Integration with MapReduce framework
- B. Simple scripting language for writing MapReduce programs
- C. Database table and storage management services
- D. C++ interface to MapReduce and data warehouse infrastructure

Correct Answer: B

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