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**QUESTION 1**

You want to Ingest log files Into HDFS, which tool would you use?

- A. HCatalog
- B. Flume
- C. Sqoop
- D. Ambari

Correct Answer: B

QUESTION 2

Given the following Pig command:

```
logevents = LOAD andapos;input/my.logandapos; AS (date:chararray, levehstring, code:int, message:string);
```

Which one of the following statements is true?

- A. The logevents relation represents the data from the my.log file, using a comma as the parsing delimiter
- B. The logevents relation represents the data from the my.log file, using a tab as the parsing delimiter
- C. The first field of logevents must be a properly-formatted date string or table return an error
- D. The statement is not a valid Pig command

Correct Answer: B

QUESTION 3

You\\'ve written a MapReduce job that will process 500 million input records and generated 500 million key-value pairs. The data is not uniformly distributed. Your MapReduce job will create a significant amount of intermediate data that it needs to transfer between mappers and reduces which is a potential bottleneck. A custom implementation of which interface is most likely to reduce the amount of intermediate data transferred across the network?

- A. Partitioner
- B. OutputFormat
- C. WritableComparable
- D. Writable
- E. InputFormat
- F. Combiner



Correct Answer: F

Explanation: Combiners are used to increase the efficiency of a MapReduce program. They are used to aggregate intermediate map output locally on individual mapper outputs. Combiners can help you reduce the amount of data that needs to be transferred across to the reducers. You can use your reducer code as a combiner if the operation performed is commutative and associative.

Reference: 24 Interview Questions and Answers for Hadoop MapReduce developers, What are combiners? When should I use a combiner in my MapReduce Job?

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

When is the earliest point at which the reduce method of a given Reducer can be called?

- A. As soon as at least one mapper has finished processing its input split.
- B. As soon as a mapper has emitted at least one record.
- C. Not until all mappers have finished processing all records.
- D. It depends on the InputFormat used for the job.

Correct Answer: C

Explanation: In a MapReduce job reducers do not start executing the reduce method until the all Map jobs have completed. Reducers start copying intermediate key-value pairs from the mappers as soon as they are available. The programmer defined reduce method is called only after all the mappers have finished.

Note: The reduce phase has 3 steps: shuffle, sort, reduce. Shuffle is where the data is collected by the reducer from each mapper. This can happen while mappers are generating data since it is only a data transfer. On the other hand, sort and reduce can only start once all the mappers are done.

Why is starting the reducers early a good thing? Because it spreads out the data transfer from the mappers to the



reducers over time, which is a good thing if your network is the bottleneck.

Why is starting the reducers early a bad thing? Because they "hog up" reduce slots while only copying data. Another job that starts later that will actually use the reduce slots now can't use them.

You can customize when the reducers startup by changing the default value of `mapred.reduce.slowstart.completed.maps` in `mapred-site.xml`. A value of 1.00 will wait for all the mappers to finish before starting the reducers. A value of 0.0 will start the reducers right away. A value of 0.5 will start the reducers when half of the mappers are complete. You can also change `mapred.reduce.slowstart.completed.maps` on a job-by-job basis.

Typically, keep `mapred.reduce.slowstart.completed.maps` above 0.9 if the system ever has multiple jobs running at once. This way the job doesn't hog up reducers when they aren't doing anything but copying data. If you only ever have one job running at a time, doing 0.1 would probably be appropriate.

Reference: 24 Interview Questions and Answers for Hadoop MapReduce developers, When is the reducers are started in a MapReduce job?

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