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**QUESTION 1**

A combiner reduces:

- A. The number of values across different keys in the iterator supplied to a single reduce method call.
- B. The amount of intermediate data that must be transferred between the mapper and reducer.
- C. The number of input files a mapper must process.
- D. The number of output files a reducer must produce.

Correct Answer: B

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. The execution of combiner is not guaranteed, Hadoop may or may not execute a combiner. Also, if required it may execute it more than 1 times. Therefore your MapReduce jobs should not depend on the combiners execution.

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

QUESTION 2

Review the following data and Pig code.

M,38,95111

F,29,95060

F,45,95192

M,62,95102

F,56,95102

```
A = LOAD andapos;dataandapos; USING PigStorage(andapos;andapos;) as (gender:Chararray, age:int, zlp:chararray);
```

```
B = FOREACH A GENERATE age;
```

Which one of the following commands would save the results of B to a folder in hdfs named myoutput?

- A. STORE A INTO andapos;myoutputandapos; USING PigStorage(andapos;,andapos;);
- B. DUMP B using PigStorage(andapos;myoutputandapos;);
- C. STORE B INTO andapos;myoutputandapos;;
- D. DUMP B INTO andapos;myoutputandapos;;



Correct Answer: C

QUESTION 3

You have user profile records in your OLTP database, that you want to join with web logs you have already ingested into the Hadoop file system. How will you obtain these user records?

- A. HDFS command
- B. Pig LOAD command
- C. Sqoop import
- D. Hive LOAD DATA command
- E. Ingest with Flume agents
- F. Ingest with Hadoop Streaming

Correct Answer: C

Reference: Hadoop and Pig for Large-Scale Web Log Analysis

QUESTION 4

Which YARN component is responsible for monitoring the success or failure of a Container?

- A. ResourceManager
- B. ApplicationMaster
- C. NodeManager
- D. JobTracker

Correct Answer: A

QUESTION 5

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

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