

APACHE-HADOOP-DEVELOPER^{Q&As}

Hadoop 2.0 Certification exam for Pig and Hive Developer

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QUESTION 1

In a MapReduce job, the reducer receives all values associated with same key. Which statement best describes the ordering of these values?

- A. The values are in sorted order.
- B. The values are arbitrarily ordered, and the ordering may vary from run to run of the same MapReduce job.
- C. The values are arbitrary ordered, but multiple runs of the same MapReduce job will always have the same ordering.
- D. Since the values come from mapper outputs, the reducers will receive contiguous sections of sorted values.

Correct Answer: B

Note:

*

Input to the Reducer is the sorted output of the mappers.

*

The framework calls the application's Reduce function once for each unique key in the sorted order.

*

Example:

For the given sample input the first map emits:

The second map emits:

QUESTION 2

What does the following WebHDFS command do?

Curl -1 -L "http://host:port/webhdfs/v1/foo/bar?op=OPEN"

- A. Make a directory /foo/bar
- B. Read a file /foo/bar
- C. List a directory /foo
- D. Delete a directory /foo/bar

Correct Answer: B

QUESTION 3

Consider the following two relations, A and B.

```
A = LOAD 'data1' AS (a1:int,a2:chararray);  
DUMP A;  
(1,apple)  
(3,orange)  
(4,peach)  
(2,cherry)
```

What is the output of the following Pig commands?

```
X = GROUP A BY S1;
```

```
DUMP X;
```

- A. $\{ \text{group}, \{ \{ \text{apple}, \text{peach}, \text{cherry}, \text{orange} \} \} \}$
- B. $\{ \text{apple}, \text{peach}, \text{cherry}, \text{orange} \}$
- C. $\{ 1, 4, 2, 3 \}$
- D. $\{ \text{apple}, \{ \{ 1, \text{apple} \} \} \}$
 $\{ \text{peach}, \{ \{ 4, \text{peach} \} \} \}$
 $\{ \text{cherry}, \{ \{ 2, \text{cherry} \} \} \}$
 $\{ \text{orange}, \{ \{ 3, \text{orange} \} \} \}$

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: D

QUESTION 4

You want to count the number of occurrences for each unique word in the supplied input data. You've decided to implement this by having your mapper tokenize each word and emit a literal value 1, and then have your reducer increment a counter for each literal 1 it receives. After successfully implementing this, it occurs to you that you could optimize this by specifying a combiner. Will you be able to reuse your existing Reduces as your combiner in this case and why or why not?

- A. Yes, because the sum operation is both associative and commutative and the input and output types to the reduce method match.
- B. No, because the sum operation in the reducer is incompatible with the operation of a Combiner.
- C. No, because the Reducer and Combiner are separate interfaces.
- D. No, because the Combiner is incompatible with a mapper which doesn't use the same data type for both the key and value.
- E. Yes, because Java is a polymorphic object-oriented language and thus reducer code can be reused as a combiner.

Correct Answer: A

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 5

Given a directory of files with the following structure: line number, tab character, string: Example:
1abialkjjkaoasdfjksdlkjhweroij 2kadjfjhuwqounahagtnbvaswslmnbfgy 3kjfteiomndscxeqalkzhtopedkfsikj You want to send each line as one record to your Mapper. Which InputFormat should you use to complete

the line: `conf.setInputFormat (____.class) ; ?`

- A. SequenceFileAsTextInputFormat
- B. SequenceFileInputFormat
- C. KeyValueFileInputFormat
- D. BDBInputFormat

Correct Answer: C

<http://stackoverflow.com/questions/9721754/how-to-parse-customwritable-from-text-in-hadoop>

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