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QUESTION 1

You are developing a combiner that takes as input Text keys, IntWritable values, and emits Text keys, IntWritable values. Which interface should your class implement?

- A. Combiner
- B. Mapper
- C. Reducer
- D. Reducer
- E. Combiner

Correct Answer: D

QUESTION 2

Which one of the following statements describes a Pig bag, tuple, and map, respectively?

- A. Unordered collection of maps, ordered collection of tuples, ordered set of key/value pairs
- B. Unordered collection of tuples, ordered set of fields, set of key value pairs
- C. Ordered set of fields, ordered collection of tuples, ordered collection of maps
- D. Ordered collection of maps, ordered collection of bags, and unordered set of key/value pairs

Correct Answer: B

QUESTION 3

In a MapReduce job, you want each of your input files processed by a single map task. How do you configure a MapReduce job so that a single map task processes each input file regardless of how many blocks the input file occupies?

- A. Increase the parameter that controls minimum split size in the job configuration.
- B. Write a custom MapRunner that iterates over all key-value pairs in the entire file.
- C. Set the number of mappers equal to the number of input files you want to process.
- D. Write a custom FileInputFormat and override the method isSplittable to always return false.

Correct Answer: D

Explanation: FileInputFormat is the base class for all file-based InputFormats. This provides a generic implementation of getSplits(JobContext). Subclasses of FileInputFormat can also override the isSplittable (JobContext, Path) method to ensure input-files are not split-up and are processed as a whole by Mappers.



Reference: org.apache.hadoop.mapreduce.lib.input, Class FileInputFormat

QUESTION 4

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)  
  
B = LOAD 'data2' AS (b1:chararray,b2:int);  
DUMP B;  
(Jim,2)  
(Brian,4)  
(Kim,0)  
(Terry,3)  
(Chris,2)
```

A Pig JOIN statement that combined relations A by its first field and B by its second field would produce what output?

- A. 2 Jim Chris 2 3 Terry 3 4 Brian 4
- B. 2 cherry 2 cherry 3 orange 4 peach
- C. 2 cherry Jim, Chris 3 orange Terry 4 peach Brian
- D. 2 cherry Jim 2 2 cherry Chris 2 3 orange Terry 3 4 peach Brian 4

Correct Answer: D

QUESTION 5

Identify the MapReduce v2 (MRv2 / YARN) daemon responsible for launching application containers and monitoring application resource usage?

- A. ResourceManager
- B. NodeManager
- C. ApplicationMaster
- D. ApplicationMasterService
- E. TaskTracker
- F. JobTracker

Correct Answer: B

Reference: Apache Hadoop YARN ?Conceptsand; Applications



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