

## Quiz

Total points 36/40 ?

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✓ Which of the following is true about MapReduce? 1/1

- ☐ It provides the resource management
- ☐ An open source data warehouse system for querying and analyzing large datasets stored in hadoop files
- ☒ Data processing layer of hadoop ✓

✓ What happens if a number of reducers are set to 0? 1/1

- ☐ Reduce-only job take place
- ☒ Map-only job take place ✓
- ☐ Reducer output will be the final output

✓ Which of the following maps input key/value pairs to a set of intermediate key/value pairs. 1/1

- ☒ Mapper ✓
- ☐ Reducer
- ☐ Both Mapper and Reducer

✓ The number of maps is usually driven by the total size of

1/1

- ☐ Tasks
- ☒ Inputs
- ☐ Outputs



✓ Which of the following is the default Partitioner for partitioning keyspace.

1/1

- ☐ HashPar
- ☐ Partitioner
- ☒ HashPartitioner



✓ Which among the following is the programming model designed for processing large volumes of data in parallel by dividing the work into a set of independent tasks.

1/1

- ☒ MapReduce
- ☐ HDFS
- ☐ Pig



✓ Which of the following is the default InputFormat, which treats each value of input a new value and the associated key is byte offset. 1/1

- ☐ FileInputFormat
- ☒ TextInputFormat
- ☐ KeyValueTextInputFormat



✓ Which among the following controls the partitioning of the keys of the intermediate map-outputs. 1/1

- ☐ RecordReader
- ☐ Combiner
- ☒ Partitioner



✓ Which of the following phases occur simultaneously 1/1

- ☐ Shuffle and Map
- ☒ Shuffle and Sort
- ☐ Reduce and Sort



✓ Which statements is true about a key, value pairs?

1/1

- ☐ Key class must implement Writable
- ☒ Key class must implement WritableComparable. ✓
- ☐ Value class must implement WritableComparable.
- ☐ Value class must extend WritableComparable

✓ In HDFS put command is used to

1/1

- ☐ Copy files from local file system to HDFS.
- ☒ Copy files or directories from local file system to HDFS. ✓
- ☐ Copy files from from HDFS to local filesystem.
- ☐ Copy files or directories from HDFS to local filesystem.

✓ Which among the following is the default OutputFormat?

1/1

- ☐ SequenceFileOutputFormat
- ☐ LazyOutputFormat
- ☐ DBOutputFormat
- ☒ TextOutputFormat ✓



✓ Which of the following is not an input format in Hadoop?

1/1

- ☒ ByteInputFormat
- ☐ TextInputFormat
- ☐ SequenceFileInputFormat
- ☐ KeyValueInputFormat



✓ What is the correct sequence of data flow in MapReduce? a. InputFormat b. Mapper c. Combiner d. Reducer e. Partitioner f. OutputFormat

1/1

- ☐ abcdfe
- ☒ abcedf
- ☐ acdefb
- ☐ abcdef



✓ Which of the following is not the phase of Reducer?

1/1

- ☐ Shuffle
- ☐ Sort
- ☒ Map
- ☐ Reduce



✓ Mappers sorted output is Input to the

1/1

- ☒ Reducer
- ☐ Mapper
- ☐ Shuffle



✓ How to disable the reduce step

1/1

- ☐ set conf.setNumreduceTasks(0)
- ☒ set job.setNumreduceTasks(0)
- ☐ set job.setNumreduceTasks()=0



✓ Keys from the output of shuffle and sort implement which of the following interface?

1/1

- ☐ Writable
- ☒ WritableComparable
- ☐ Configurable
- ☐ ComparableWritable



✓ Put the following phases of a MapReduce program in the order that they execute? a. Partitioner b. Mapper c. Combiner d. Shuffle/Sort 1/1

- ☐ Mapper Partitioner Shuffle/Sort Combiner
- ☐ Mapper Partitioner Combiner Shuffle/Sort
- ☐ Mapper Shuffle/Sort Combiner Partitioner
- ☒ Mapper Combiner Partitioner Shuffle/Sort



✓ Which among the following generate an intermediate key-value pair 1/1

- ☐ Reducer
- ☒ Mapper
- ☐ Combiner
- ☐ Partitioner



✓ In MapReduce output of Mapper is stored on \* 1/1

- ☒ Local Disk
- ☐ HDFS
- ☐ In-memory



✓ Which of the following is true about combiner

1/1

- ☐ Reduces network congestion
- ☐ Execution of combiner is not guaranteed
- ☒ Both the above



✓ Which of the following is called Mini-reduce

1/1

- ☒ Combiner
- ☐ Partitioner
- ☐ Reducer



✓ By default RecordReader uses which InputFormat for converting data into key-value pairs.

1/1

- ☐ FileInputFormat
- ☒ TextInputFormat
- ☐ KeyValueTextInputFormat
- ☐ SequenceFileInputFormat





✓ What statement is true about InputSplit?

1/1

- ☒ Logical representation of data
- ☐ Physical representation of data
- ☐ Both the above



✓ Which of the following is not an input format in Hadoop?

1/1

- ☐ TextInputFormat
- ☐ KeyValueTextInputFormat
- ☒ SequenceFileTextInputFormat
- ☐ SequenceFileInputFormat



✗ In which InputFormat tab character ('\t') is used

0/1

- ☐ KeyValueTextInputFormat
- ☐ TextInputFormat
- ☐ FileInputFormat
- ☐ SequenceFileInputFormat

✓ Aggregation cannot be done in Mapper in MapReduce

1/1

- ☒ True
- ☐ False



✓ Shuffling and sorting phase in Hadoop occurs

1/1

- ☐ First shuffling then sorting
- ☒ Simultaneously
- ☐ First sorting then shuffling



✓ What is the correct sequence of data flow in MapReduce a. InputFormat 1/1  
b. Shuffling-Sorting c. Mapper d. Reducer e. OutputFormat

- ☐ abcde
- ☐ acdbe
- ☒ acbde
- ☐ bacde



✓ Which among the following is true about SequenceFileInputFormat

1/1

- ☐ Key- byte offset. Value- It is the contents of the line
- ☐ Key- Everything up to tab character. Value- Remaining part of the line after tab character
- ☒ Key and value- Both are user-defined
- ☐ None of the above



✓ Suppose file content is- “on the top of the Tree” then, what is key and value? 1/1

- ☒ Key- 0 Value- on the top of the Tree
- ☐ Key-on Value- the top of the Tree
- ☐ Key-1 Value- on the top of the tree
- ☐ Key-on the Value- top of the Tree



✗ Which among following is true about KeyValueTypeInputFormat 0/1

- ☐ Key- byte offset. Value- It is the contents of the line
- ☐ Key- Everything up to tab character. Value- Remaining part of the line after tab character
- ☒ Key and value- Both are user-defined
- ☐ None of the above



Correct answer

- ☒ Key- Everything up to tab character. Value- Remaining part of the line after tab character

✓ Which is key and value in TextInputFormat 1/1

- ☒ Key- byte offset Value- It is the contents of the line
- ☐ Key- Everything up to tab character Value- Remaining part of the line after tab character
- ☐ Key and value- Both are user-defined
- ☐ None of the above



✓ Counters validate that:

1/1

- ☐ Number of bytes read-write within map/reduce job is correct or not
- ☐ Number of tasks launches and successfully run in map/reduce job is correct or not
- ☐ Amount of CPU and memory consumed is appropriate for our job and cluster nodes.
- ☒ All of the above



✓ Which of the following is Built-In Counters in Hadoop?

1/1

- ☐ FileSystem Counters
- ☐ FileInputFormat Counters
- ☐ FileOutputFormat counters
- ☒ All of the above



✓ Which of the following command is used to set the number of reducers for the job 1/1

- ☐ Job.confNumreduceTasks(int)
- ☒ Job.setNumreduceTasks(int)
- ☐ Job.setNumreduceTasks()
- ☐ Job.confNumreduceTasks()



✓ Which of the following is not an output format in Hadoop?

1/1

- ☐ TextoutputFormat
- ☒ ByteoutputFormat
- ☐ SequenceFileOutputFormat
- ☐ DBOutputFormat



✗ Which of the following OutputFormat is used for writing to relational databases and Hbase?

0/1

- ☒ TextoutputFormat
- ☐ DBOutputFormat
- ☐ MapFileOutputFormat
- ☐ SequenceFileOutputFormat



Correct answer

- ☒ DBOutputFormat

✗ RecordReader handle record boundaries in Text files or Sequence files in MapReduce

0/1

- ☐ True
- ☒ False



Correct answer

- ☒ True

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