CCD-410^{Q&As}

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QUESTION 1

When can a reduce class also serve as a combiner without affecting the output of a MapReduce program?

A. When the types of the reduce operation\'s input key and input value match the types of the reducer\'s output key and output value and when the reduce operation is both communicative and associative.

B. When the signature of the reduce method matches the signature of the combine method.

C. Always. Code can be reused in Java since it is a polymorphic object-oriented programming language.

D. Always. The point of a combiner is to serve as a mini-reducer directly after the map phase to increase performance.

E. Never. Combiners and reducers must be implemented separately because they serve different purposes.

Correct Answer: A

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 2

In the reducer, the MapReduce API provides you with an iterator over Writable values. What does calling the next () method return?

A. It returns a reference to a different Writable object time.

B. It returns a reference to a Writable object from an object pool.

C. It returns a reference to the same Writable object each time, but populated with different data.

D. It returns a reference to a Writable object. The API leaves unspecified whether this is a reused object or a new object.

E. It returns a reference to the same Writable object if the next value is the same as the previous value, or a new Writable object otherwise.

Correct Answer: C

Calling Iterator.next() will always return the SAME EXACT instance of IntWritable, with the contents of that instance replaced with the next value.

Reference: manupulating iterator in mapreduce

QUESTION 3

Workflows expressed in Oozie can contain:

A. Sequences of MapReduce and Pig. These sequences can be combined with other actions including forks, decision

points, and path joins.

B. Sequences of MapReduce job only; on Pig on Hive tasks or jobs. These MapReduce sequences can be combined with forks and path joins.

C. Sequences of MapReduce and Pig jobs. These are limited to linear sequences of actions with exception handlers but no forks.

D. Iterntive repetition of MapReduce jobs until a desired answer or state is reached.

Correct Answer: A

Oozie workflow is a collection of actions (i.e. Hadoop Map/Reduce jobs, Pig jobs) arranged in a control dependency DAG (Direct Acyclic Graph), specifying a sequence of actions execution. This graph is specified in hPDL (a XML Process Definition Language).

hPDL is a fairly compact language, using a limited amount of flow control and action nodes. Control nodes define the flow of execution and include beginning and end of a workflow (start, end and fail nodes) and mechanisms to control the workflow execution path (decision, fork and join nodes).

Workflow definitions Currently running workflow instances, including instance states and variables

Reference: Introduction to Oozie

Note: Oozie is a Java Web-Application that runs in a Java servlet-container - Tomcat and uses a database to store:

QUESTION 4

Given a directory of files with the following structure: line number, tab character, string:

Example: 1 abialkjfjkaoasdfjksdlkjhqweroij 2 kadfjhuwqounahagtnbvaswslmnbfgy 3 kjfteiomndscxeqalkzhtopedkfsikj

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

QUESTION 5

You want to perform analysis on a large collection of images. You want to store this data in HDFS and process it with MapReduce but you also want to give your data analysts and data scientists the ability to process the data directly from HDFS with an interpreted high-level programming language like Python. Which format should you use to store this data in HDFS?

A. SequenceFiles

B. Avro

C. JSON

D. HTML

E. XML

F. CSV

Correct Answer: B

Reference: Hadoop binary files processing introduced by image duplicates finder

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