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QUESTION 1

For each intermediate key, each reducer task can emit:

A. As many final key-value pairs as desired. There are no restrictions on the types of those key-value pairs (i.e., they can be heterogeneous).

B. As many final key-value pairs as desired, but they must have the same type as the intermediate key-value pairs.

C. As many final key-value pairs as desired, as long as all the keys have the same type and all the values have the same type.

D. One final key-value pair per value associated with the key; no restrictions on the type.

E. One final key-value pair per key; no restrictions on the type.

Correct Answer: C

Reference: Hadoop Map-Reduce Tutorial; Yahoo! Hadoop Tutorial, Module 4: MapReduce

QUESTION 2

You want to populate an associative array in order to perform a map-side join. You\'ve decided to put this information in a text file, place that file into the DistributedCache and read it in your Mapper before any records are processed.

Indentify which method in the Mapper you should use to implement code for reading the file and populating the associative array?

A. combine

B. map

C. init

D. configure

Correct Answer: D

Reference: org.apache.hadoop.filecache , Class DistributedCache

QUESTION 3

Which HDFS command displays the contents of the file x in the user\'s HDFS home directory?

A. hadoop fs -ls x

B. hdfs fs -get x

C. hadoop fs -cat x

D. hadoop fs -cp x

Correct Answer: C

QUESTION 4

Assuming default settings, which best describes the order of data provided to a reducer\\'s reduce method:

A. The keys given to a reducer aren\\'t in a predictable order, but the values associated with those keys always are.

B. Both the keys and values passed to a reducer always appear in sorted order.

C. Neither keys nor values are in any predictable order.

D. The keys given to a reducer are in sorted order but the values associated with each key are in no predictable order

Correct Answer: D

Explanation: Reducer has 3 primary phases:

1.

Shuffle

The Reducer copies the sorted output from each Mapper using HTTP across the network.

2.

Sort

The framework merge sorts Reducer inputs by keys (since different Mappers may have output the same key).

The shuffle and sort phases occur simultaneously i.e. while outputs are being fetched they are merged.

SecondarySort

To achieve a secondary sort on the values returned by the value iterator, the application should extend the key with the secondary key and define a grouping comparator. The keys will be sorted using the entire key, but will be grouped using the grouping comparator to decide which keys and values are sent in the same call to reduce.

3. Reduce

In this phase the reduce(Object, Iterable, Context) method is called for each in

the sorted inputs.

The output of the reduce task is typically written to a RecordWriter via TaskInputOutputContext.write

(Object, Object).

The output of the Reducer is not re-sorted.

Reference: org.apache.hadoop.mapreduce, Class Reducer

QUESTION 5

Assuming the following Hive query executes successfully:

```
from inputdata select context_ngrams(sentences(lines),
array("you", "are", null), 80);
```

Which one of the following statements describes the result set?

A. A bigram of the top 80 sentences that contain the substring "you are" in the lines column of the input data A1 table.

B. An 80-value ngram of sentences that contain the words "you" or "are" in the lines column of the inputdata table.

C. A trigram of the top 80 sentences that contain "you are" followed by a null space in the lines column of the inputdata table.

D. A frequency distribution of the top 80 words that follow the subsequence "you are" in the lines column of the inputdata table.

Correct Answer: D

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