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QUESTION 1

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 2

Which one of the following Hive commands uses an HCatalog table named x?

A. SELECT * FROM x;

B. SELECT x.-FROM org.apache.hcatalog.hive.HCatLoader(\\'x\\');

C. SELECT * FROM org.apache.hcatalog.hive.HCatLoader(\\'x\\');

D. Hive commands cannot reference an HCatalog table

Correct Answer: C

QUESTION 3

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

QUESTION 4

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 5

In a large MapReduce job with m mappers and n reducers, how many distinct copy operations will there be in the sort/shuffle phase?

A. mXn (i.e., m multiplied by n)

B. n

C. m

D. m+n (i.e., m plus n)

E. mn (i.e., m to the power of n)

Correct Answer: A

Explanation: A MapReduce job with m mappers and r reducers involves up to m * r distinct copy operations, since each mapper may have intermediate output going to every reducer.