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QUESTION 1

Which one of the following statements describes a Hive user-defined aggregate function?

A. Operates on multiple input rows and creates a single row as output

B. Operates on a single input row and produces a single row as output

C. Operates on a single input row and produces a table as output

D. Operates on multiple input rows and produces a table as output

Correct Answer: A

QUESTION 2

Which one of the following statements is FALSE regarding the communication between DataNodes and a federation of NameNodes in Hadoop 2.0?

A. Each DataNode receives commands from one designated master NameNode.

B. DataNodes send periodic heartbeats to all the NameNodes.

C. Each DataNode registers with all the NameNodes.

D. DataNodes send periodic block reports to all the NameNodes.

Correct Answer: A

QUESTION 3

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

Explanation: 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 4

Which YARN component is responsible for monitoring the success or failure of a Container?

A. ResourceManager

B. ApplicationMaster

C. NodeManager

D. JobTracker

Correct Answer: A

QUESTION 5

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)
```

What is the output of the following Pig commands?

X = GROUP A BY S1;

DUMP X;

A. ⦾ (group,{(apple,peach,cherry,orange)})

B. ⦾ {apple,peach,cherry,orange}

C. ⦾ {1,4,2,3}

D. ⦾ (apple,{(1,apple)})
   (peach,{(4,peach)})
   (cherry,{(2,cherry)})
   (orange,{(3,orange)})

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

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