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QUESTION 1

Given the following Hive commands:

```
CREATE TABLE mytable (name chararray, age int) ROW FORMAT
DELIMITED FIELDS TERMINATED BY ',' STORED AS
TEXTFILE;
LOAD DATA INPATH '/home/user/mydata.txt' INTO TABLE mytable;
```

Which one of the following statements is true?

- A. The file mydata.txt is copied to a subfolder of /apps/hive/warehouse
- B. The file mydata.txt is moved to a subfolder of /apps/hive/warehouse
- C. The file mydata.txt is copied into Hive's underlying relational database.
- D. The file mydata.txt does not move from its current location in HDFS

Correct Answer: A

QUESTION 2

Determine which best describes when the reduce method is first called in a MapReduce job?

- A. Reducers start copying intermediate key-value pairs from each Mapper as soon as it has completed. The programmer can configure in the job what percentage of the intermediate data should arrive before the reduce method begins.
- B. Reducers start copying intermediate key-value pairs from each Mapper as soon as it has completed. The reduce method is called only after all intermediate data has been copied and sorted.
- C. Reduce methods and map methods all start at the beginning of a job, in order to provide optimal performance for map-only or reduce-only jobs.
- D. Reducers start copying intermediate key-value pairs from each Mapper as soon as it has completed. The reduce method is called as soon as the intermediate key-value pairs start to arrive.

Correct Answer: B

Reference: 24 Interview Questions and Answers for Hadoop MapReduce developers , When is the reducers are started in a MapReduce job?

QUESTION 3

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 4

What does Pig provide to the overall Hadoop solution?

A. Legacy language Integration with MapReduce framework

B. Simple scripting language for writing MapReduce programs

C. Database table and storage management services

D. C++ interface to MapReduce and data warehouse infrastructure

Correct Answer: B

QUESTION 5

You want to Ingest log files Into HDFS, which tool would you use?

- A. HCatalog
- B. Flume
- C. Sqoop
- D. Ambari

Correct Answer: B

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