Data Formats and Streaming Data Quiz

8/9 points (88.88%)

Quiz, 9 questions

✔ **Congratulations! You passed!**

<div>Next Item</div>

✔ 1 / 1
points

1.

What is true between data modeling and the formatting of the data?

○ There is a one to one correspondence between formatting data and data modeling. For every model of data, there is only one way to store the data.

◉ The data does not necessarily need to be formatted in a way that represents the data model. Just so long as it can be extrapolated.

Correct
For more information related to this concept, please click here.

○ There is always one specific schema for storing model data that is the best and preferred method for the specific data representation.

✘ 0 / 1
points

2.

What is streaming?

○ Using sensors to manipulate the system, such as a smart car being able to drive by itself using sensors to detect road hazards.

○ Using static data stored from a real time source in order to process and guide the application.

◠ Calculating results using real time data otherwise known as
streaming data.

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This should not be selected

For more information related to this concept, please click here.

○ Utilizing real time data to compute and change the state of an
application continuously.

✔ 1 / 1
points

3.
Of the following, what best describes the properties of working with
streaming data?

☑ Does not ping the source interactively for a response upon
receiving the data.

▲

Correct
For more information related to this concept, please click here.

☑ Always unbounded in sequence, in other words, data is not
guaranteed to be in order.

▲

Un-selected is correct

☑ Independent computations that do not rely on previous or future
data.

▲

Correct
For more information related to this concept, please click here.

☑ Small time windows for working with data.

▲

Correct
For more information related to this concept, please click here.

☐

☐   Data manipulation is near real time.

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Correct

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For more information related to this concept, please click here.

☐   Data is always utilized for streaming the application.

Un-selected is correct

✔   1 / 1
points

4.

What is a characteristic of streaming data?

◯   Data is unbounded in size but requires only finite time and space
      to process it.

Correct

For more information related to this concept, please click here.

◯   Data is finite in size and size determines the time and space of
      processing the data.

◯   The data is unbounded in size and the size determines the time
      and space of processing the data.

◯   The data is finite and requires only finite time and space to
      process the data.

✔   1 / 1
points

5.

What type of algorithm is required for analyzing streaming data?

◯   Fast and Simple

Correct

For more information related to this concept, please click <u>here.</u>

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◯ Accurate and Consistent

◯ Fast and Complex

◯ Accurate and Memory Efficient

✔ 1 / 1
points

6.

What is lambda architecture?

◯ A method to process streaming data by utilizing batch processing and real time processing.

▲

Correct
For more information related to this concept, please click <u>here.</u>

◯ A specific hardware architecture for a server made specifically for processing real time data.

◯ A specific method for processing streaming data using special real time processes.

✔ 1 / 1
points

7.

Of the following, which best represents the challenge regarding the size and frequency of data?

◯ The size and frequency of the streaming data may be sporadic.

▲

Correct
For more information related to this concept, please click <u>here.</u>

◯ The size and frequency of the streaming data may be too small.

○ There may not be data to produce the notion of size and frequency.

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✔ 1 / 1
    points

8.

What is the difference between data lakes and data warehouses?

○ Data lakes utilize hierarchical systems while data warehouses use object storage.

◉ Data lakes house raw data while data warehouses contain pre-formatted data.

Correct

For more information related to this concept, please click here.

○ Data lakes contain only files while data warehouses contain only databases.

✔ 1 / 1
    points

9.

What is schema-on-read?

○ The process where formatted data is given structure when read.

○ Another name for data lakes.

◉ Data is stored as raw data until it is read by an application where the application assigns structure.

Correct

For more information related to this concept, please click here.

○ The process where data is pre-formatted prior to being read but the schema is loaded on read.

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