Data Formats and Streaming Data Quiz

9/9 points (100%)

Quiz, 9 questions

✔ **Congratulations! You passed!**

[Next Item]

✅ 1. What is true between data modeling and the formatting of the data?

1 / 1 points

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

○ 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
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✅ 2. What is streaming?

1 / 1 points

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

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

▲

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

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

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

1 / 1 points

☐ Data is always utilized for streaming the application.

▲

Un-selected is correct

☐ Small time windows for working with data.

▲

Correct

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☐ Data manipulation is near real time.

▲

Correct

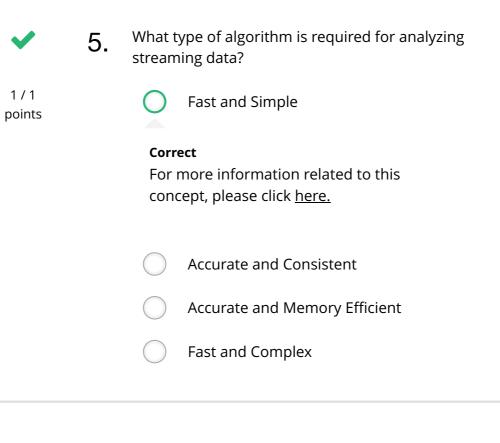For more information related to this concept, please click here.

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

▲

Un-selected is correct

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

▲

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

▲

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✔

4. What is a characteristic of streaming data?

1 / 1 points

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

○ 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.

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

▲

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5. What type of algorithm is required for analyzing streaming data?

1 / 1 points

○ Fast and Simple

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○ Accurate and Consistent

○ Accurate and Memory Efficient

○ Fast and Complex

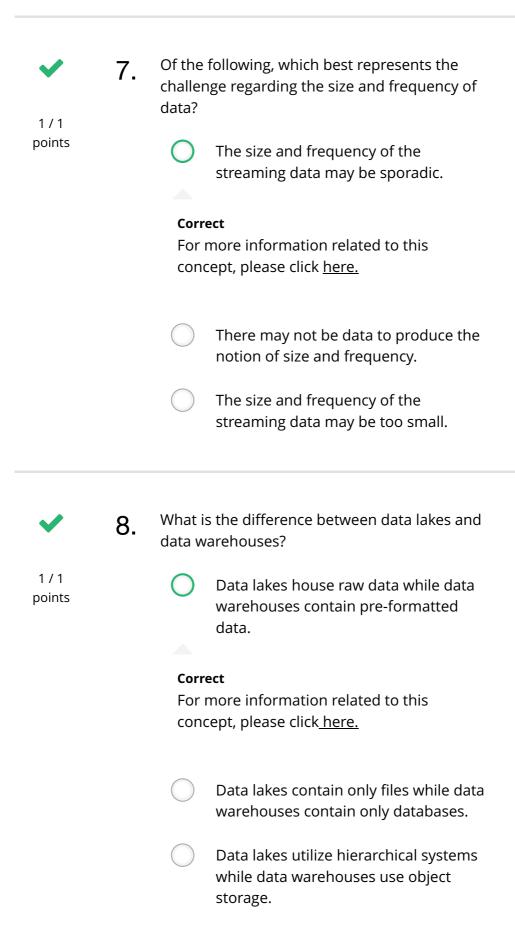6. What is lambda architecture?

1 / 1 points

○ 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.

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

Correct
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✔

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.

▲

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

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

✔

1 / 1
points

8. What is the difference between data lakes and data warehouses?

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

▲

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

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

✔

1 / 1 points

9. What is schema-on-read?

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

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

🟢 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.

⚪ Another name for data lakes.

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