

## Data Formats and Streaming Data Quiz



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1。

What is true between data modeling and the formatting of 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.



**正确**

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.



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.



1 / 1 分

2.

What is streaming?

- ☐ Calculating results using real time data otherwise known as streaming data.
- ☐ Using static data stored from a real time source in order to process and guide the application.
- ☒ Utilizing real time data to compute and change the state of an application continuously.



**正确**

For more information related to this concept, please click [here](#).



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



1 / 1 分

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.



**正确**

For more information related to this concept, please click [here](#).



Data manipulation is near real time.



**正确**

For more information related to this concept, please click [here](#).



Small time windows for working with data.



**正确**

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.



**未选择的是正确的**



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



**正确**

For more information related to this concept, please click [here](#).



Data is always utilized for streaming the application.



**未选择的是正确的**



1 / 1 分

4。

What is a characteristic of streaming data?



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



**正确**

For more information related to this concept, please click [here](#).



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

- ☐ The data is unbounded in size and the size determines the time and space of processing the data.
  - ☐ Data is finite in size and size determines the time and space of processing the data.
- 



1 / 1 分

5.

What type of algorithm is required for analyzing streaming data?

- ☐ Accurate and Consistent
- ☒ Fast and Simple



**正确**

For more information related to this concept, please click [here](#).

- ☐ Accurate and Memory Efficient
  - ☐ Fast and Complex
- 



1 / 1 分

6.

What is lambda architecture?

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



**正确**

For more information related to this concept, please click [here](#).

- ☐ 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 分

7.

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

- ☐ There may not be data to produce the notion of size and frequency.
- ☒ The size and frequency of the streaming data may be sporadic.



**正确**

For more information related to this concept, please click [here](#).

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



1 / 1 分

8.

What is the difference between data lakes and data warehouses?

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



**正确**

For more information related to this concept, please click [here](#).

- ☐ Data lakes contain only files than data warehouses contain only databases.
- ☐ Data lakes utilize hierarchical systems while data warehouses use object storage.



1 / 1 分

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.



**正确**

For more information related to this concept, please click [here](#).

- ☐ Another name for data lakes.

