Your grade: 100%

Your latest: **100%** • Your highest: **100%** • To pass you need at least 80%. We keep your highest score.

Next item →

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

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

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

2. What is streaming? 1 / 1 point

- ○ Calculating results using real time data otherwise known as streaming data.
- ○ Using sensors to manipulate the system, such as a smart car being able to drive by itself using sensors to detect road hazards.
- ◉ Utilizing real time data to compute and change the state of an application continuously.
- ○ Using static data stored from a real time source in order to process and guide the application.

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

3. Of the following, what best describes the properties of working with streaming data? 1 / 1 point

- ☑ 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.
- ☑ Data manipulation is near real time.

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.

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

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

- ☐ Data is always utilized for streaming the application.

4. What is a characteristic of streaming data? 1 / 1 point

- ○ 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.
- ◉ 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.

5. What type of algorithm is required for analyzing streaming data? 1 / 1 point

- ○ Accurate and Consistent
- ○ Fast and Complex
- ○ Accurate and Memory Efficient
- ◉ Fast and Simple

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

6. What is lambda architecture? 1 / 1 point

- ○ A specific method for processing streaming data using special real time processes.
- ○ A specific hardware architecture for a server made specifically for processing real time data.
- ◉ A method to process streaming data by utilizing batch processing and real time processing.

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

7. Of the following, which best represents the challenge regarding the size and frequency of data? 1 / 1 point

- ○ There may not be data to produce the notion of size and frequency.
- ◉ The size and frequency of the streaming data may be sporadic.
- ○ The size and frequency of the streaming data may be too small.

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

8. What is the difference between data lakes and data warehouses? 1 / 1 point

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

9. What is schema-on-read? 1 / 1 point

- ◉ Data is stored as raw data until it is read by an application where the application assigns structure.
- ○ Another name for data lakes.
- ○ The process where formatted data is given structure when read.
- ○ The process where data is pre-formatted prior to being read but the schema is loaded on read.

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