WolfWare / **Dashboard** / My courses / **CSC 591 (603) SPRG 2019**
  / **Topic-2: Apache Spark for Big Data Analytics**
  / **(DUE: 01/23/2019): SUBMIT: QUIZ: Data Streaming Principles**

Started on	Tuesday, January 22, 2019, 1:06 PM
State	Finished
Completed on	Tuesday, January 22, 2019, 1:18 PM
Time taken	12 mins 37 secs
Grade	**15.00** out of 15.00 (**100**%)

Question **1**

Correct

5.00 points out of 5.00

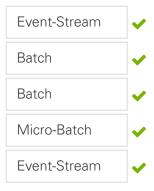Match the following statements with the most appropriate model.

This model has the lowest latency of all the models.	Event-Stream ✔
Incurs the highest latency of all the models.	Batch ✔
Performing a function over the entire dataset.	Batch ✔
This approach allows windowed computations.	Micro-Batch ✔
Process a tuple at a time.	Event-Stream ✔

Your answer is correct.

The correct answer is: This model has the lowest latency of all the models. → Event-Stream, Incurs the highest latency of all the models. → Batch, Performing a function over the entire dataset. → Batch, This approach allows windowed computations. → Micro-Batch, Process a tuple at a time. → Event-Stream

Question **2**

Correct

5.00 points out of 5.00

Match the following statements with the most appropriate choice.

Suppose we have the following stream, which arrives top->bottom.

name	age	location
bob	25	Brazil
alice	65	USA
gonzalo	27	Venezuela
stephen	40	USA
mandar	25	India

This delivery guarantee has the lowest latency.

At Most Once

✔

What is the delivery guarantee of the stream supposing the following tuples arrived:

- (bob, 25, Brazil)
- (mandar, 25, India)

At Most Once

✔

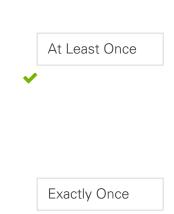What is the delivery guarantee of the stream supposing the following tuples arrived:

- (bob, 25, Brazil)
- (alice, 65, USA)
- (gonzalo, 27, Venezuela)
- (stephen, 40, USA)
- (mandar, 25, India)

Exactly Once

✔

What is the delivery guarantee of the stream supposing the following tuples arrived:

- (bob, 25, Brazil)
- (alice, 65, USA)
- (gonzalo, 27, Venezuela)
- (stephen, 40, USA)
- (mandar, 25, India)
- (gonzalo, 27, Venezuela)

At Least Once ✔

This delivery guarantee has the highest latency.

Exactly Once ✔

Your answer is correct.

The correct answer is: This delivery guarantee has the lowest latency. → At Most Once,

What is the delivery guarantee of the stream supposing the following tuples arrived:

- (bob, 25, Brazil)
- (mandar, 25, India)

→ At Most Once, What is the delivery guarantee of the stream supposing the following tuples arrived:
- (bob, 25, Brazil)
- (alice, 65, USA)
- (gonzalo, 27, Venezuela)
- (stephen, 40, USA)
- (mandar, 25, India)

→ Exactly Once, What is the delivery guarantee of the stream supposing the following tuples arrived:

- (bob, 25, Brazil)
- (alice, 65, USA)
- (gonzalo, 27, Venezuela)
- (stephen, 40, USA)
- (mandar, 25, India)
- (gonzalo, 27, Venezuela)

→ At Least Once, This delivery guarantee has the highest latency. → Exactly Once

Question **3**

Correct

5.00 points out of 5.00

Select all of the following statements that are true.

Select one or more:

☑ a. The elements of the stream should have a schema ✔

☑ b. A stream is defined over an INFINITE number of events/tuples ✔

☐ c. Repeating events/tuples are NOT allowed in a stream

☐ d. There is no distributed stream processing framework.

☐ e. The elements of a stream are mutable key/value pairs

☑ f. Filtering, Transforming, and other machine learning operators are examples of tasks that could make up "stream processing". ✔

Your answer is correct.

The correct answers are: A stream is defined over an INFINITE number of events/tuples, The elements of the stream should have a schema , Filtering, Transforming, and other machine learning operators are examples of tasks that could make up "stream processing".

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