Started on	Sunday, January 26, 2020, 12:40 PM
State	Finished
Completed on	Sunday, January 26, 2020, 12:43 PM
Time taken	3 mins 44 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.

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

Your answer is correct.

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

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 ✔

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

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

At Most Once ✔

This delivery guarantee has the highest latency.

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)

Exactly Once ✔

This delivery guarantee has the lowest latency.

At Most Once ✔

Your answer is correct.

The correct answer is: 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,

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

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

→ At Most Once, This delivery guarantee has the highest latency. → 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)

→ Exactly Once, This delivery guarantee has the lowest latency. → At Most 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 a stream are mutable key/value pairs

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

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

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

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

☐ f. There is no distributed stream processing framework.

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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