Correct Noté sur 1,00

The discretized streams model sets epochs at small time intervals and compute a Spark job for each epoch.

(Bareme: -12.5% if incorrect selection)

Veuillez choisir une réponse.

- a. I don't know (no point, no penalty)
- b. False
- □ c. True 

  ✓

Votre réponse est correcte.

La réponse correcte est : True

Correct Noté sur 1,00

In the context of a streaming system such as Spark streaming, "event time" refers to the time at which the data event is received by Spark's processor event engine: a record with a lower event time will thus be processed before records with higher event times.

(Bareme: from -16.67% if incorrect selection).

Veuillez choisir une réponse.

- a. I don't know (no point, no penalty)
- b. True
- © c. No ✓ Event time is to be distinguished from processing time. Event time typically plays a role on how data is grouped for agregation, but it's processing time is which indicate when data is processed

O d.		
Votre réponse est correcte.		
La réponse correcte est :		
No		

Correct Noté sur 1,00

the discretized streams model has lower latency than the continuous processing mode.

(Bareme: -12.5% if incorrect selection)

Veuillez choisir une réponse.

- a. False
- b. I don't know (no point, no penalty)
- c. True

Votre réponse est correcte.

Incorrect Noté sur 1,00

the continuous processing mode does not set epochs

(Bareme: -12.5% if incorrect selection)

Veuillez choisir une réponse.

- a. I don't know (no point, no penalty)
- b. True X
- c. False

Votre réponse est incorrecte.

Incorrect Noté sur 1.00

In spark structured streaming, data that arrives late might be automatically discarded instead of being processed in the window that contains it's event time.

(Bareme: -12.5% if incorrect selection)

Veuillez choisir une réponse.

- a. True
- b. False X
- c. I don't know (no point, no penalty)

Votre réponse est incorrecte.

La réponse correcte est : True

Correct Noté sur 1,00

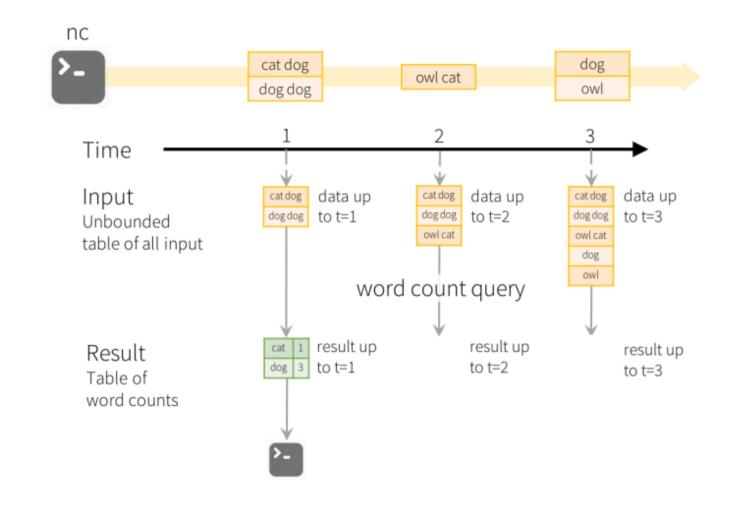
We recall that in spark structured streaming there are 3 output modes: complete mode, append mode, and update mode.

We consider a wordcount example where for the data read up to t=1 contains 2 records 'cat dog' and 'dog dog'.

In that case, the result of word counts up to t=1 contains 2 records= (cat, 1) and (dog,3).

Next, we suppose that between t=1 and t=2 we receive a new input record 'owl cat'.

Select the correct statement below



(Bareme: -20% if incorrect selection)

Veuillez choisir une réponse.

- a. I don't know (no penalty, no point)
- b. In complete mode, after receiving the new data for the result up to t=2, spark streaming should write 2 lines.
- c. In complete mode, after receiving the new data for the result up to t=2, spark streaming should write 0 line.
- d. In complete mode, after receiving the new data for the result up to t=2, spark streaming should write 3 lines.
- e. In complete mode, after receiving the new data for the result up to t=2, spark streaming should write 1 line.

#### Votre réponse est correcte.

La réponse correcte est : In complete mode, after receiving the new data for the result up to t=2, spark streaming should write 3 lines.

Correct Noté sur 1,00

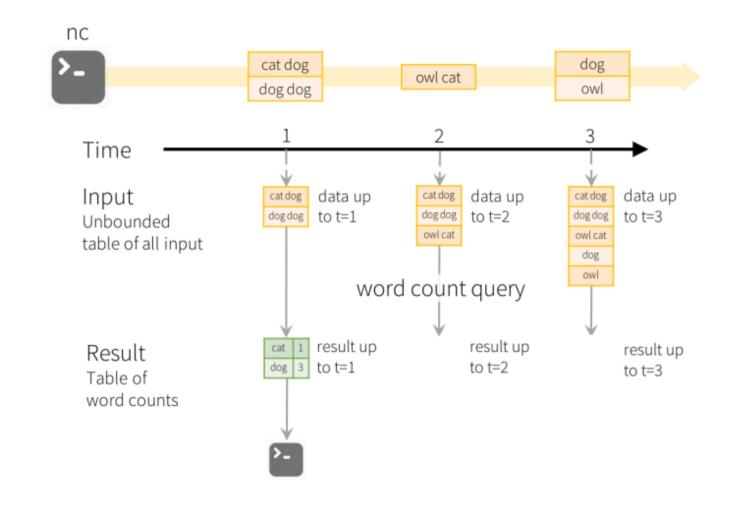
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In that case, the result of word counts up to t=1 contains 2 records= (cat, 1) and (dog,3).

Next, we suppose that between t=1 and t=2 we receive a new input record 'owl cat'.

Select the correct statement below



(Bareme: -20% if incorrect selection)

#### Veuillez choisir une réponse.

- a. In update mode, after receiving the new data for the result up to t=2, spark streaming should write 0 line.
- b. In update mode, after receiving the new data for the result up to t=2, spark streaming should write 1 line.
- c. In update mode, after receiving the new data for the result up to t=2, spark streaming
   should write 2 lines
- d. I don't know (no penalty, no point)
- e. In update mode, after receiving the new data for the result up to t=2, spark streaming should write 3 lines.

#### Votre réponse est correcte.

La réponse correcte est : In update mode, after receiving the new data for the result up to t=2, spark streaming should write 2 lines .

Incorrect Noté sur 1,00

In Spark structured streaming, Session windows typically overlap

(Bareme: -16.67% if incorrect selection)

Veuillez choisir une réponse.

- a. True X
- b. I don't know (no point, no penalty)
- c. False

Votre réponse est incorrecte.

Correct Noté sur 1,00

Update mode requires the whole aggregate data to be preserved for aggregates so watermarking cannot be used in update mode to clean the state.

(Bareme: -16.67% if incorrect selection)

Veuillez choisir une réponse.

- a. False 

  ✓
- b. True
- c. I don't know (no point, no penalty)

Votre réponse est correcte.

Correct Noté sur 1,00

In spark structured streaming, the purpose of watermarking is to manage checkpointing for fault tolerance.

(Bareme: -16.67% if incorrect selection)

Veuillez choisir une réponse.

- a. I don't know (no point, no penalty)
- b. True
- c. False

Votre réponse est correcte.