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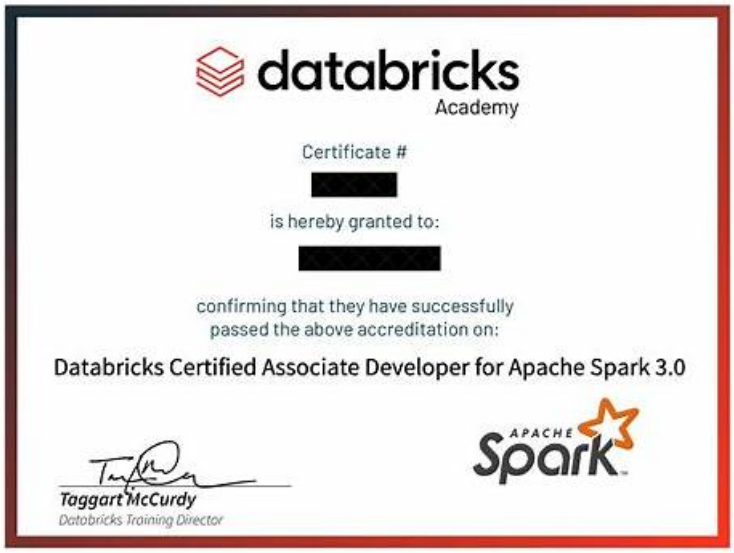

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最新的 Databricks Certification Associate-Developer-Apache-Spark-3.5 免費考試真題 (Q33-Q38):

問題 #33
A developer wants to test Spark Connect with an existing Spark application.
What are the two alternative ways the developer can start a local Spark Connect server without changing their existing application code? (Choose 2 answers)

- A. Execute their pyspark shell with the option --remote "https://localhost"
- B. Ensure the Spark property spark.connect.grpc.binding.port is set to 15002 in the application code
- C. Add .remote("sc://localhost") to their SparkSession.builder calls in their Spark code
- D. Execute their pyspark shell with the option --remote "sc://localhost"
- E. Set the environment variable SPARK_REMOTE="sc://localhost" before starting the pyspark shell

答案： D,E

解題說明：
Spark Connect enables decoupling of the client and Spark driver processes, allowing remote access. Spark supports configuring the remote Spark Connect server in multiple ways:
From Databricks and Spark documentation:
Option B (--remote "sc://localhost") is a valid command-line argument for the pyspark shell to connect using Spark Connect.
Option C (setting SPARK_REMOTE environment variable) is also a supported method to configure the remote endpoint.
Option A is incorrect because Spark Connect uses the sc:// protocol, not https://.
Option D requires modifying the code, which the question explicitly avoids.
Option E configures the port on the server side but doesn't start a client connection.
Final Answers: B and C

問題 #34
3 of 55. A data engineer observes that the upstream streaming source feeds the event table frequently and sends duplicate records. Upon analyzing the current production table, the data engineer found that the time difference in the event_timestamp column of the duplicate records is, at most, 30 minutes.
To remove the duplicates, the engineer adds the code:
df = df.withWatermark("event_timestamp", "30 minutes")
What is the result?

- A. It accepts watermarks in seconds and the code results in an error.
- B. It removes duplicates that arrive within the 30-minute window specified by the watermark.
- C. It removes all duplicates regardless of when they arrive.
- D. It is not able to handle deduplication in this scenario.

答案： B

解題說明：
In Structured Streaming, a watermark defines the maximum delay for event-time data to be considered in stateful operations like deduplication or window aggregations.
Behavior:
df = df.withWatermark("event_timestamp", "30 minutes")
This sets a 30-minute watermark, meaning Spark will only keep track of events that arrive within 30 minutes of the latest event time seen so far. When used with:
df.dropDuplicates(["event_id", "event_timestamp"])
Spark removes duplicates that arrive within the watermark threshold (in this case, within 30 minutes).
Why other options are incorrect:
A: Watermarks do not remove all duplicates; they only manage those within the defined event-time window.
B: Watermark durations can be expressed as strings like "30 minutes", "10 seconds", etc., not only seconds.
D: Structured Streaming supports deduplication using withWatermark() and dropDuplicates().
Reference (Databricks Apache Spark 3.5 - Python / Study Guide):
PySpark Structured Streaming Guide - withWatermark() and dropDuplicates() methods for event-time deduplication.
Databricks Certified Associate Developer for Apache Spark Exam Guide (June 2025): Section "Structured Streaming" - Topic: Streaming Deduplication with and without watermark usage.

問題 #35
A data engineer is working on a Streaming DataFrame streaming_df with the given streaming data:
Which operation is supported with streamingdf ?

- A. streaming_df. select (countDistinct ("Name"))
- B. streaming_df.groupby("Id") .count ()
- C. streaming_df.filter (col("count") < 30).show()

- D. streaming_df.orderBy("timestamp").limit(4)

答案：B

解題說明：
In Structured Streaming, only a limited subset of operations is supported due to the nature of unbounded data. Operations like sorting (orderBy) and global aggregation (countDistinct) require a full view of the dataset, which is not possible with streaming data unless specific watermarks or windows are defined.
Review of Each Option:
A: select(countDistinct("Name"))
Not allowed - Global aggregation like countDistinct() requires the full dataset and is not supported directly in streaming without watermark and windowing logic.
Reference: Databricks Structured Streaming Guide - Unsupported Operations.
B: groupby("Id").count()
Supported - Streaming aggregations over a key (like groupBy("Id")) are supported. Spark maintains intermediate state for each key.
Reference: Databricks Docs → Aggregations in Structured Streaming (https://docs.databricks.com/structured-streaming/aggregation.html) C . orderBy("timestamp").limit(4)
Not allowed - Sorting and limiting require a full view of the stream (which is infinite), so this is unsupported in streaming DataFrames.
Reference: Spark Structured Streaming - Unsupported Operations (ordering without watermark/window not allowed).
D: filter(col("count") < 30).show()
Not allowed - show() is a blocking operation used for debugging batch DataFrames; it's not allowed on streaming DataFrames.
Reference: Structured Streaming Programming Guide - Output operations like show() are not supported.
Reference Extract from Official Guide:
"Operations like orderBy, limit, show, and countDistinct are not supported in Structured Streaming because they require the full dataset to compute a result. Use groupBy(...).agg(...) instead for incremental aggregations."
- Databricks Structured Streaming Programming Guide

問題 #36
44 of 55.
A data engineer is working on a real-time analytics pipeline using Spark Structured Streaming.
They want the system to process incoming data in micro-batches at a fixed interval of 5 seconds.
Which code snippet fulfills this requirement?

- A. query = df.writeStream \
  .outputMode("append") \
  .start()
- B. query = df.writeStream \
  .outputMode("append") \
  .trigger(processingTime="5 seconds") \
  .start()
- C. query = df.writeStream \
  .outputMode("append") \
  .trigger(once=True) \
  .start()
- D. query = df.writeStream \
  .outputMode("append") \
  .trigger(continuous="5 seconds") \
  .start()

答案：B

解題說明：
To process data in fixed micro-batch intervals, use the .trigger(processingTime="interval") option in Structured Streaming.
Correct usage:
query = df.writeStream \
.outputMode("append") \
.trigger(processingTime="5 seconds") \
.start()
This instructs Spark to process available data every 5 seconds.
Why the other options are incorrect:

B: continuous triggers are for continuous processing mode (different execution model).
C: once=True runs the stream a single time (batch mode).
D: Default trigger runs as fast as possible, not fixed intervals.
Reference:
PySpark Structured Streaming Guide - Trigger types: processingTime, once, continuous.
Databricks Exam Guide (June 2025): Section "Structured Streaming" - controlling streaming triggers and batch intervals.

問題 #37
An engineer notices a significant increase in the job execution time during the execution of a Spark job. After some investigation, the engineer decides to check the logs produced by the Executors.
How should the engineer retrieve the Executor logs to diagnose performance issues in the Spark application?

- A. Use the Spark UI to select the stage and view the executor logs directly from the stages tab.
- B. Use the command spark-submit with the -verbose flag to print the logs to the console.
- C. Fetch the logs by running a Spark job with the spark-sql CLI tool.
- D. Locate the executor logs on the Spark master node, typically under the /tmp directory.

答案：A

解題說明：
The Spark UI is the standard and most effective way to inspect executor logs, task time, input size, and shuffles.
From the Databricks documentation:
"You can monitor job execution via the Spark Web UI. It includes detailed logs and metrics, including task-level execution time, shuffle reads/writes, and executor memory usage." (Source: Databricks Spark Monitoring Guide) Option A is incorrect: logs are not guaranteed to be in /tmp, especially in cloud environments.
B . -verbose helps during job submission but doesn't give detailed executor logs.
D . spark-sql is a CLI tool for running queries, not for inspecting logs.
Hence, the correct method is using the Spark UI → Stages tab → Executor logs.

問題 #38
.....

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