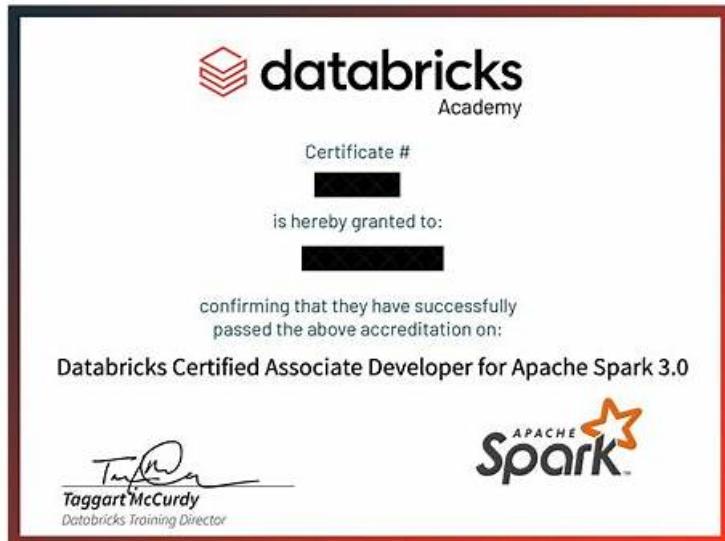


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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q128-Q133):

NEW QUESTION # 128

A data engineer wants to write a Spark job that creates a new managed table. If the table already exists, the job should fail and not modify anything.

Which save mode and method should be used?

- A. save with mode Ignore
- B. save with mode ErrorIfExists
- C. **saveAsTable with mode ErrorIfExists**
- D. saveAsTable with mode Overwrite

Answer: C

Explanation:

Comprehensive and Detailed Explanation:

The method saveAsTable() creates a new table and optionally fails if the table exists.

From Spark documentation:

"The mode 'ErrorIfExists' (default) will throw an error if the table already exists." Thus:

Option A is correct.

Option B (Overwrite) would overwrite existing data - not acceptable here.

Option C and D uses save(), which doesn't create a managed table with metadata in the metastore.

Final Answer: A

NEW QUESTION # 129

Which feature of Spark Connect is considered when designing an application to enable remote interaction with the Spark cluster?

- A. It provides a way to run Spark applications remotely in any programming language
- B. It can be used to interact with any remote cluster using the REST API
- C. **It allows for remote execution of Spark jobs**
- D. It is primarily used for data ingestion into Spark from external sources

Answer: C

Explanation:

Comprehensive and Detailed Explanation:

Spark Connect introduces a decoupled client-server architecture. Its key feature is enabling Spark job submission and execution from remote clients - in Python, Java, etc.

From Databricks documentation:

"Spark Connect allows remote clients to connect to a Spark cluster and execute Spark jobs without being co-located with the Spark driver." A is close, but "any language" is overstated (currently supports Python, Java, etc., not literally all).

B refers to REST, which is not Spark Connect's mechanism.

D is incorrect; Spark Connect isn't focused on ingestion.

Final Answer: C

NEW QUESTION # 130

A developer notices that all the post-shuffle partitions in a dataset are smaller than the value set for spark.sql.adaptive.maxShuffledHashJoinLocalMapThreshold.

Which type of join will Adaptive Query Execution (AQE) choose in this case?

- A. A Cartesian join
- B. **A shuffled hash join**
- C. A broadcast nested loop join
- D. A sort-merge join

Answer: B

Explanation:

Adaptive Query Execution (AQE) dynamically selects join strategies based on actual data sizes at runtime. If the size of post-shuffle partitions is below the threshold set by:

spark.sql.adaptive.maxShuffledHashJoinLocalMapThreshold

then Spark prefers to use a shuffled hash join.

From the Spark documentation:

"AQE selects a shuffled hash join when the size of post-shuffle data is small enough to fit within the configured threshold, avoiding

more expensive sort-merge joins." Therefore:

A is wrong - Cartesian joins are only used with no join condition.

B is correct - this is the optimized join for small partitioned shuffle data under AQE.

C and D are used under other scenarios but not for this case.

Final answer: B

NEW QUESTION # 131

A data scientist is working with a Spark DataFrame called customerDF that contains customer information.

The DataFrame has a column named email with customer email addresses. The data scientist needs to split this column into username and domain parts.

Which code snippet splits the email column into username and domain columns?

- A. `customerDF.select(
 regexp_replace(col("email"), "@", "").alias("username"),
 regexp_replace(col("email"), "@", "").alias("domain")
)`
- B. `customerDF.select(
 col("email").substr(0, 5).alias("username"),
 col("email").substr(-5).alias("domain")
)`
- C. `customerDF.withColumn("username", substring_index(col("email"), "@", 1)) \
 .withColumn("domain", substring_index(col("email"), "@", -1))`
- D. `customerDF.withColumn("username", split(col("email"), "@").getItem(0)) \
 .withColumn("domain", split(col("email"), "@").getItem(1))`

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Option B is the correct and idiomatic approach in PySpark to split a string column (like email) based on a delimiter such as "@".

The `split(col("email"), "@")` function returns an array with two elements: username and domain.

`getItem(0)` retrieves the first part (username).

`getItem(1)` retrieves the second part (domain).

`withColumn()` is used to create new columns from the extracted values.

Example from official Databricks Spark documentation on splitting columns:

```
from pyspark.sql.functions import split, col  
df.withColumn("username", split(col("email"), "@").getItem(0)) \  
withColumn("domain", split(col("email"), "@").getItem(1))
```

##Why other options are incorrect:

A uses fixed substring indices (`substr(0, 5)`), which won't correctly extract usernames and domains of varying lengths.

C uses `substring_index`, which is available but less idiomatic for splitting emails and is slightly less readable.

D removes "@" from the email entirely, losing the separation between username and domain, and ends up duplicating values in both fields.

Therefore, Option B is the most accurate and reliable solution according to Apache Spark 3.5 best practices.

NEW QUESTION # 132

54 of 55.

What is the benefit of Adaptive Query Execution (AQE)?

- A. It automatically distributes tasks across nodes in the clusters and does not perform runtime adjustments to the query plan.
- B. It optimizes query execution by parallelizing tasks and does not adjust strategies based on runtime metrics like data skew.
- C. It allows Spark to optimize the query plan before execution but does not adapt during runtime.
- D. `It enables the adjustment of the query plan during runtime, handling skewed data, optimizing join strategies, and improving overall query performance.`

Answer: D

Explanation:

Adaptive Query Execution (AQE) is a Spark SQL feature introduced to dynamically optimize queries at runtime based on actual

data statistics collected during execution.

Key benefits include:

Runtime plan adaptation: Spark adjusts the physical plan after some stages complete.

Skew handling: Automatically splits skewed partitions to balance work distribution.

Join strategy optimization: Dynamically switches between shuffle join and broadcast join depending on partition sizes.

Coalescing shuffle partitions: Reduces the number of small tasks for better performance.

Example configuration:

```
spark.conf.set("spark.sql.adaptive.enabled", True)
```

This enables AQE globally in Spark 3.5.

Why the other options are incorrect:

A: AQE adapts during runtime, not only before execution.

B: Task distribution is a base Spark feature, not specific to AQE.

C: AQE specifically addresses runtime skew and join adjustments.

Reference:

Spark SQL Adaptive Query Execution Guide - Runtime optimization, skew handling, and join strategy adjustment.

Databricks Exam Guide (June 2025): Section "Troubleshooting and Tuning Apache Spark DataFrame API Applications" - Adaptive Query Execution benefits and configuration.

NEW QUESTION # 133

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