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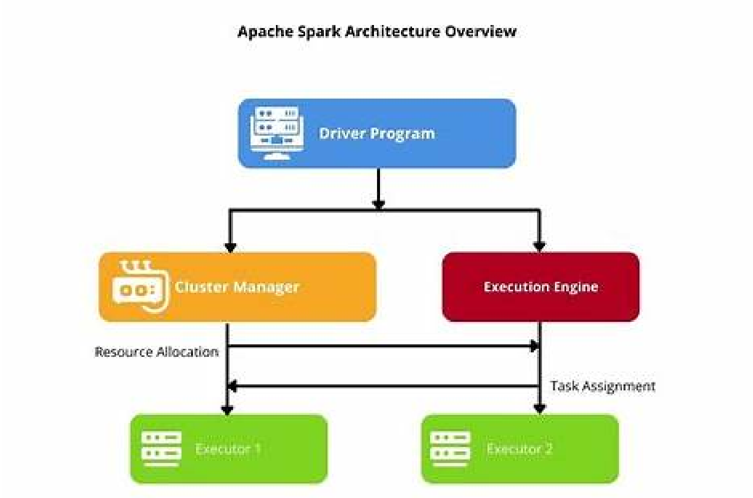

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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q31-Q36):

NEW QUESTION # 31
5 of 55.
What is the relationship between jobs, stages, and tasks during execution in Apache Spark?

- A. A stage contains multiple tasks, and each task contains multiple jobs.
- B. A stage contains multiple jobs, and each job contains multiple tasks.
- C. A job contains multiple stages, and each stage contains multiple tasks.
- D. A job contains multiple tasks, and each task contains multiple stages.

Answer: C

Explanation:
In Apache Spark's execution hierarchy, the relationships are structured as follows:
Job: Created when an action (e.g., count(), collect(), save()) is triggered on an RDD or DataFrame.
Stage: Each job is divided into one or more stages, separated by shuffle boundaries (e.g., after a reduceByKey or join).
Task: Each stage consists of multiple tasks, one per partition, executed in parallel on executors.
Execution Hierarchy:
Job → Stage(s) → Task(s)
So, a job contains multiple stages, and each stage contains multiple tasks.
Why the other options are incorrect:
A: A job does not directly contain tasks without stages.
B: A stage cannot contain multiple jobs; it belongs to a single job.
C: Tasks do not contain jobs.
Reference (Databricks Apache Spark 3.5 - Python / Study Guide):
Spark Architecture Overview - Execution Hierarchy: Jobs, Stages, and Tasks.
Databricks Exam Guide (June 2025): Section "Apache Spark Architecture and Components" - describes execution hierarchy and lazy evaluation.

NEW QUESTION # 32
A data scientist of an e-commerce company is working with user data obtained from its subscriber database and has stored the data in a DataFrame df_user. Before further processing the data, the data scientist wants to create another DataFrame df_user_non_pii and store only the non-PII columns in this DataFrame. The PII columns in df_user are first_name, last_name, email, and birthdate.
Which code snippet can be used to meet this requirement?

- A. df_user_non_pii = df_user.drop("first_name", "last_name", "email", "birthdate")
- B. df_user_non_pii = df_user.dropfields("first_name", "last_name", "email", "birthdate")
- C. df_user_non_pii = df_user.drop("first_name", "last_name", "email", "birthdate")
- D. df_user_non_pii = df_user.dropfields("first_name, last_name, email, birthdate")

Answer: C

Explanation:
Comprehensive and Detailed Explanation:
To remove specific columns from a PySpark DataFrame, the drop() method is used. This method returns a new DataFrame without the specified columns. The correct syntax for dropping multiple columns is to pass each column name as a separate argument to the drop() method.
Correct Usage:
df_user_non_pii = df_user.drop("first_name", "last_name", "email", "birthdate") This line of code will return a new DataFrame df_user_non_pii that excludes the specified PII columns.
Explanation of Options:
A).Correct. Uses the drop() method with multiple column names passed as separate arguments, which is the standard and correct usage in PySpark.
B).Although it appears similar to Option A, if the column names are not enclosed in quotes or if there's a syntax error (e.g., missing quotes or incorrect variable names), it would result in an error. However, as written, it's identical to Option A and thus also correct.
C).Incorrect. The dropfields() method is not a method of the DataFrame class in PySpark. It's used with StructType columns to drop fields from nested structures, not top-level DataFrame columns.
D).Incorrect. Passing a single string with comma-separated column names to dropfields() is not valid syntax in PySpark.
References:
PySpark Documentation:DataFrame.drop
Stack Overflow Discussion:How to delete columns in PySpark DataFrame

NEW QUESTION # 33

A Spark developer is developing a Spark application to monitor task performance across a cluster.
One requirement is to track the maximum processing time for tasks on each worker node and consolidate this information on the driver for further analysis.
Which technique should the developer use?

- A. Broadcast a variable to share the maximum time among workers.
- B. Configure the Spark UI to automatically collect maximum times.
- C. Use an RDD action like reduce() to compute the maximum time.
- D. Use an accumulator to record the maximum time on the driver.

Answer: C

Explanation:
RDD actions like reduce() aggregate values across all partitions and return the result to the driver.
To compute the maximum processing time, reduce() is ideal because it combines results from all tasks efficiently.
Example:
max_time = rdd_times.reduce(lambda x, y: max(x, y))
This aggregates maximum values from all executors into a single result on the driver.
Why the other options are incorrect:
A: Broadcast variables distribute read-only data; they cannot aggregate results.
B: Spark UI provides visualization, not programmatic collection.
D: Accumulators support additive operations only (e.g., counters, sums), not non-associative ones like max.
Reference:
Spark RDD API - reduce() for aggregations.
Databricks Exam Guide (June 2025): Section "Apache Spark Architecture and Components" - actions, accumulators, and broadcast variables.

NEW QUESTION # 34
7 of 55.
A developer has been asked to debug an issue with a Spark application. The developer identified that the data being loaded from a CSV file is being read incorrectly into a DataFrame.
The CSV file has been read using the following Spark SQL statement:
CREATE TABLE locations
USING csv
OPTIONS (path '/data/locations.csv')
The first lines of the command SELECT * FROM locations look like this:
| city | lat | long |
| ALTI Sydney | -33... | ... |
Which parameter can the developer add to the OPTIONS clause in the CREATE TABLE statement to read the CSV data correctly again?

- A. 'header' 'true'
- B. 'sep' ','
- C. 'sep' '|'
- D. 'header' 'false'

Answer: A

Explanation:
When reading CSV files using Spark SQL or the DataFrame API, Spark by default assumes that the first line of the file is data, not headers. To interpret the first line as column names, the header option must be set to true.
Correct syntax:
CREATE TABLE locations
USING csv
OPTIONS (
path '/data/locations.csv',
header 'true'
);
This tells Spark to read the first row as column headers and correctly map columns like city, lat, and long.
Why the other options are incorrect:

B (header 'false'): Default behavior; would keep reading header as data.
C / D (sep): Used to specify the delimiter; not relevant unless the file uses a different separator (e.g., |).
Reference (Databricks Apache Spark 3.5 - Python / Study Guide):
PySpark SQL Data Sources - CSV options (header, inferSchema, sep).
Databricks Exam Guide (June 2025): Section "Using Spark SQL" - Reading data from files with different formats using Spark SQL and DataFrame APIs.

NEW QUESTION # 35
15 of 55.
A data engineer is working on a Streaming DataFrame (streaming_df) with the following streaming data:
id
name
count
timestamp
1
Delhi
20
2024-09-19T10:11
1
Delhi
50
2024-09-19T10:12
2
London
50
2024-09-19T10:15
3
Paris
30
2024-09-19T10:18
3
Paris
20
2024-09-19T10:20
4
Washington
10
2024-09-19T10:22
Which operation is supported with streaming_df?

- A. streaming_df.filter("count < 30")
- B. streaming_df.select(countDistinct("name"))
- C. streaming_df.count()
- D. streaming_df.show()

Answer: A

Explanation:
In Structured Streaming, only transformation operations are allowed on streaming DataFrames. These include select(), filter(), where(), groupBy(), withColumn(), etc.
Example of supported transformation:
filtered_df = streaming_df.filter("count < 30")
However, actions such as count(), show(), and collect() are not supported directly on streaming DataFrames because streaming queries are unbounded and never finish until stopped.
To perform aggregations, the query must be executed through writeStream and an output sink.
Why the other options are incorrect:
A: count() is an action, not allowed directly on streaming DataFrames.
C: countDistinct() is a stateful aggregation, not supported outside of a proper streaming query.
D: show() is also an action, unsupported on streaming queries.
Reference:

PySpark Structured Streaming Programming Guide - supported transformations and actions.
Databricks Exam Guide (June 2025): Section "Structured Streaming" - performing operations on streaming DataFrames and understanding supported transformations.

NEW QUESTION # 36
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