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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q133-Q138):

NEW QUESTION # 133

A data analyst wants to add a column date derived from a timestamp column.

Options:

- A. `dates_df.withColumn("date", f.from_unixtime("timestamp")).show()`
- B. `dates_df.withColumn("date", f.unix_timestamp("timestamp")).show()`
- C. `dates_df.withColumn("date", f.to_date("timestamp")).show()`
- D. `dates_df.withColumn("date", f.date_format("timestamp", "yyyy-MM-dd")).show()`

Answer: C

Explanation:

`f.to_date()` converts a timestamp or string to a `DateType`.

Ideal for extracting the date component (year-month-day) from a full timestamp.

Example:

```
from pyspark.sql.functions import to_date
dates_df.withColumn("date", to_date("timestamp"))
```

Reference: Spark SQL Date Functions

NEW QUESTION # 134

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 enables the adjustment of the query plan during runtime, handling skewed data, optimizing join strategies, and improving overall query performance.
- D. It allows Spark to optimize the query plan before execution but does not adapt during runtime.

Answer: C

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 # 135

What is the relationship between jobs, stages, and tasks during execution in Apache Spark?

Options:

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

Answer: D

Explanation:

A Spark job is triggered by an action (e.g., count, show).

The job is broken into stages, typically one per shuffle boundary.

Each stage is divided into multiple tasks, which are distributed across worker nodes.

Reference: Spark Execution Model

NEW QUESTION # 136

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. 'sep' ','
- **B. 'header' 'true'**
- C. 'header' 'false'
- D. 'sep' ''

Answer: B

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 # 137

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

Answer: C

Explanation:

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.

NEW QUESTION # 138

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