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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q134-Q139):

NEW QUESTION # 134

11 of 55.

Which Spark configuration controls the number of tasks that can run in parallel on an executor?

- A. **spark.executor.cores**
- B. `spark.executor.memory`
- C. `spark.task.maxFailures`
- D. `spark.sql.shuffle.partitions`

Answer: A

Explanation:

The Spark configuration `spark.executor.cores` defines how many concurrent tasks can be executed within a single executor process. Each executor is assigned a number of CPU cores.

Each core executes one task at a time.

Therefore, increasing `spark.executor.cores` allows an executor to run more tasks concurrently.

Example:

`--conf spark.executor.cores=4`

→ Each executor can run 4 parallel tasks.

Why the other options are incorrect:

B (`spark.task.maxFailures`): Sets retry attempts for failed tasks.

C (`spark.executor.memory`): Sets executor memory, not concurrency.

D (`spark.sql.shuffle.partitions`): Defines number of shuffle partitions, not executor concurrency.

Reference:

Spark Configuration Guide - Executor cores, tasks, and parallelism

Databricks Exam Guide (June 2025): Section "Apache Spark Architecture and Components" - executor configuration, CPU cores, and parallel task execution.

NEW QUESTION # 135

Given this view definition:

`df.createOrReplaceTempView("users_vw")`

Which approach can be used to query the `users_vw` view after the session is terminated?

Options:

- A. Query the `users_vw` using Spark
- B. **Persist the `users_vw` data as a table**
- C. Save the `users_vw` definition and query using Spark
- D. Recreate the `users_vw` and query the data using Spark

Answer: B

Explanation:

Temp views like `createOrReplaceTempView` are session-scoped.

They disappear once the Spark session ends.

To retain data across sessions, it must be persisted:

`df.write.saveAsTable("users_vw")`

Thus, the view needs to be persisted as a table to survive session termination.

NEW QUESTION # 136

28 of 55.

A data analyst builds a Spark application to analyze finance data and performs the following operations: filter, select, groupBy, and coalesce.

Which operation results in a shuffle?

- A. **groupBy**
- B. coalesce
- C. filter
- D. select

Answer: A

Explanation:

In Spark, a shuffle occurs when data needs to be redistributed across partitions or nodes, typically due to operations that require grouping, joining, or sorting.

groupBy triggers a shuffle because it aggregates data based on key values, requiring data from multiple partitions to be moved across the cluster.

Operations like filter and select are narrow transformations (no shuffle).

coalesce can reduce the number of partitions without a full shuffle (unlike repartition).

Why the other options are incorrect:

A (filter) - Narrow transformation, no shuffle.

B (select) - Simple projection, no data movement.

D (coalesce) - Reduces partitions locally without shuffle.

Reference:

Spark Architecture - Transformations and Actions; narrow vs. wide transformations.

Databricks Exam Guide (June 2025): Section "Apache Spark Architecture and Components" - explains shuffle operations and execution hierarchy.

NEW QUESTION # 137

36 of 55.

What is the main advantage of partitioning the data when persisting tables?

- A. It ensures that data is loaded into memory all at once for faster query execution.
- B. It compresses the data to save disk space.
- C. It automatically cleans up unused partitions to optimize storage.
- D. **It optimizes by reading only the relevant subset of data from fewer partitions.**

Answer: D

Explanation:

Partitioning a dataset divides data into separate directories based on partition column values. When queries filter on partitioned columns, Spark can prune irrelevant partitions - meaning it only reads files that match the filter criteria.

Advantage:

Reduces I/O and improves performance by scanning only relevant subsets of data.

Example:

/data/sales/year=2023/month=10/...

/data/sales/year=2024/month=01/...

A query filtering WHERE year = 2024 reads only the relevant partition.

Why the other options are incorrect:

A: Compression is independent of partitioning.

B: Spark does not automatically clean partitions unless managed manually.

C: Partitioning does not cause Spark to load entire data into memory.

Reference:

Databricks Exam Guide (June 2025): Section "Using Spark SQL" - partitioning and pruning for optimized data retrieval.

Spark SQL Documentation - DataFrameWriter partitionBy() and query optimization.

NEW QUESTION # 138

Given this view definition:

```
df.createOrReplaceTempView("users_vw")
```

Which approach can be used to query the users_vw view after the session is terminated?

Options:

- A. Query the users_vw using Spark
- B. Persist the users_vw data as a table
- C. Save the users_vw definition and query using Spark
- D. Recreate the users_vw and query the data using Spark

Answer: B

Explanation:

Temp views like createOrReplaceTempView are session-scoped.

They disappear once the Spark session ends.

To retain data across sessions, it must be persisted:

df.write.saveAsTable("users_vw")

Thus, the view needs to be persisted as a table to survive session termination.

Reference: Databricks - Temp vs Global vs Permanent Views

NEW QUESTION # 139

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