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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q102-Q107):

NEW QUESTION # 102

11 of 55.

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

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

Answer: C

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 # 103

38 of 55.

A data engineer is working with Spark SQL and has a large JSON file stored at `/data/input.json`.

The file contains records with varying schemas, and the engineer wants to create an external table in Spark SQL that:

Reads directly from `/data/input.json`.

Infers the schema automatically.

Merges differing schemas.

Which code snippet should the engineer use?

- A. `CREATE EXTERNAL TABLE users USING json OPTIONS (path '/data/input.json', inferSchema 'true');`
- B. `CREATE EXTERNAL TABLE users USING json OPTIONS (path '/data/input.json', mergeSchema 'true');`
- C. `CREATE EXTERNAL TABLE users USING json OPTIONS (path '/data/input.json', mergeAll 'true');`
- D. `CREATE TABLE users`

```
USING json
OPTIONS (path '/data/input.json');
```

Answer: B

Explanation:

To handle JSON files with evolving or differing schemas, Spark SQL supports the option `mergeSchema 'true'`, which merges all fields across files into a unified schema.

Correct syntax:

```
CREATE EXTERNAL TABLE users
USING json
```

```
OPTIONS (path '/data/input.json', mergeSchema 'true');
```

This creates an external table directly on the JSON data, inferring schema automatically and merging variations.

Why the other options are incorrect:

B: Missing schema merge configuration - fails with inconsistent files.

C: `inferSchema` applies to CSV/other file types, not JSON.

D: `mergeAll` is not a valid Spark SQL option.

Reference:

Spark SQL Data Sources - JSON file options (`mergeSchema`, `path`).

Databricks Exam Guide (June 2025): Section "Using Spark SQL" - creating external tables and schema inference for JSON data.

NEW QUESTION # 104

A data engineer is running a Spark job to process a dataset of 1 TB stored in distributed storage. The cluster has 10 nodes, each with 16 CPUs. Spark UI shows:

Low number of Active Tasks

Many tasks complete in milliseconds

Fewer tasks than available CPUs

Which approach should be used to adjust the partitioning for optimal resource allocation?

- A. Set the number of partitions to a fixed value, such as 200
- **B. Set the number of partitions by dividing the dataset size (1 TB) by a reasonable partition size, such as 128 MB**
- C. Set the number of partitions equal to the number of nodes in the cluster
- D. Set the number of partitions equal to the total number of CPUs in the cluster

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Spark's best practice is to estimate partition count based on data volume and a reasonable partition size - typically 128 MB to 256 MB per partition.

With 1 TB of data: $1 \text{ TB} / 128 \text{ MB} \approx 8000$ partitions

This ensures that tasks are distributed across available CPUs for parallelism and that each task processes an optimal volume of data.

Option A (equal to cores) may result in partitions that are too large.

Option B (fixed 200) is arbitrary and may underutilize the cluster.

Option C (nodes) gives too few partitions (10), limiting parallelism.

Reference: Databricks Spark Tuning Guide # Partitioning Strategy

NEW QUESTION # 105

A Spark engineer must select an appropriate deployment mode for the Spark jobs.

What is the benefit of using cluster mode in Apache Spark™?

- A. In cluster mode, the driver is responsible for executing all tasks locally without distributing them across the worker nodes.
- B. In cluster mode, resources are allocated from a resource manager on the cluster, enabling better performance and scalability for large jobs
- **C. In cluster mode, the driver program runs on one of the worker nodes, allowing the application to fully utilize the distributed resources of the cluster.**
- D. In cluster mode, the driver runs on the client machine, which can limit the application's ability to handle large datasets efficiently.

Answer: C

Explanation:

In Apache Spark's cluster mode:

"The driver program runs on the cluster's worker node instead of the client's local machine. This allows the driver to be close to the data and other executors, reducing network overhead and improving fault tolerance for production jobs." (Source: Apache Spark documentation - Cluster Mode Overview)

"The driver program runs on the cluster's worker node instead of the client's local machine. This allows the driver to be close to the data and other executors, reducing network overhead and improving fault tolerance for production jobs." (Source: Apache Spark documentation - Cluster Mode Overview) This deployment is ideal for production environments where the job is submitted from a gateway node, and Spark manages the driver lifecycle on the cluster itself.

Option A is partially true but less specific than D.

Option B is incorrect: the driver never executes all tasks; executors handle distributed tasks.

Option C describes client mode, not cluster mode.

NEW QUESTION # 106

A Spark developer is building an app to monitor task performance. They need to track the maximum task processing time per worker node and consolidate it on the driver for analysis.

Which technique should be used?

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

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The correct way to aggregate information (e.g., max value) from distributed workers back to the driver is using RDD actions such as `reduce()` or `aggregate()`.

From the documentation:

"To perform global aggregations on distributed data, actions like `reduce()` are commonly used to collect summaries such as min/max/avg." Accumulators (Option B) do not support max operations directly and are not intended for such analytics.

Broadcast (Option C) is used to send data to workers, not collect from them.

Spark UI (Option D) is a monitoring tool - not an analytics collection interface.

Final Answer: A

NEW QUESTION # 107

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