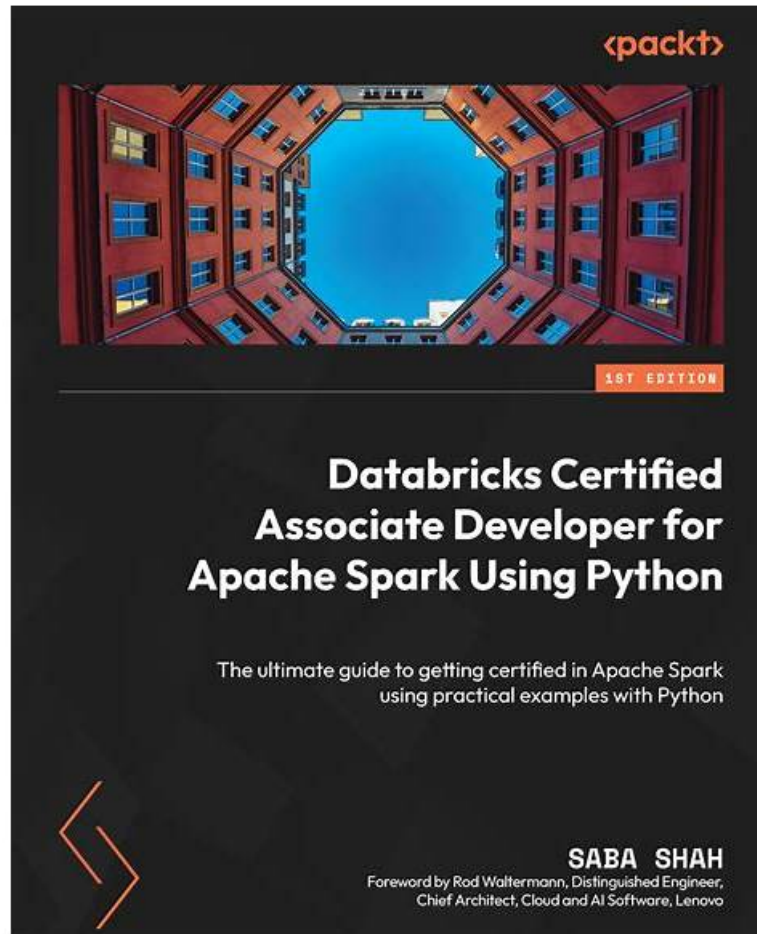


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## Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q79-Q84):

### NEW QUESTION # 79

23 of 55.

A data scientist is working with a massive dataset that exceeds the memory capacity of a single machine. The data scientist is considering using Apache Spark™ instead of traditional single-machine languages like standard Python scripts.

Which two advantages does Apache Spark™ offer over a normal single-machine language in this scenario? (Choose 2 answers)

- **A. It can distribute data processing tasks across a cluster of machines, enabling horizontal scalability.**
- B. It processes data solely on disk storage, reducing the need for memory resources.
- C. It requires specialized hardware to run, making it unsuitable for commodity hardware clusters.
- D. It eliminates the need to write any code, automatically handling all data processing.
- **E. It has built-in fault tolerance, allowing it to recover seamlessly from node failures during computation.**

**Answer: A,E**

Explanation:

Apache Spark is a distributed data processing engine designed for large-scale, cluster-based computation.

Advantages:

Horizontal Scalability: Spark can distribute tasks across many machines, handling datasets larger than the memory of a single node.

Fault Tolerance: Spark automatically recovers from node or task failures using the lineage graph (RDD recovery mechanism) and retry logic.

These two features allow Spark to process huge datasets efficiently and reliably, unlike standard Python scripts that are limited to one machine and fail on single-node errors.

Why the other options are incorrect:

B: Spark runs on commodity hardware; no specialized machines required.

C: Spark emphasizes in-memory processing, not disk-only operations.

D: Spark still requires user code in Python, Scala, SQL, or Java.

Reference:

Databricks Exam Guide (June 2025): Section "Apache Spark Architecture and Components" - advantages, cluster execution, and fault tolerance.

Apache Spark Overview - distributed processing and resilience design.

### NEW QUESTION # 80

A Spark DataFrame is cached using the MEMORY\_AND\_DISK storage level, but the DataFrame is too large to fit entirely in memory.

What is the likely behavior when Spark runs out of memory to store the DataFrame?

- **A. Spark will store as much data as possible in memory and spill the rest to disk when memory is full, continuing processing with performance overhead.**
- B. Spark duplicates the DataFrame in both memory and disk. If it doesn't fit in memory, the DataFrame is stored and retrieved from the disk entirely.
- C. Spark splits the DataFrame evenly between memory and disk, ensuring balanced storage utilization.
- D. Spark stores the frequently accessed rows in memory and less frequently accessed rows on disk, utilizing both resources to offer balanced performance.

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When using the MEMORY\_AND\_DISK storage level, Spark attempts to cache as much of the DataFrame in memory as possible.

If the DataFrame does not fit entirely in memory, Spark will store the remaining partitions on disk. This allows processing to continue, albeit with a performance overhead due to disk I/O.

As per the Spark documentation:

"MEMORY\_AND\_DISK: It stores partitions that do not fit in memory on disk and keeps the rest in memory. This can be useful when working with datasets that are larger than the available memory."

- Perflcient Blogs: Spark - StorageLevel

This behavior ensures that Spark can handle datasets larger than the available memory by spilling excess data to disk, thus preventing job failures due to memory constraints.

### NEW QUESTION # 81

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

**Answer: A**

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 # 82

A Spark application suffers from too many small tasks due to excessive partitioning. How can this be fixed without a full shuffle?

Options:

- **A. Use the coalesce() transformation with a lower number of partitions**
- B. Use the repartition() transformation with a lower number of partitions
- C. Use the sortBy() transformation to reorganize the data
- D. Use the distinct() transformation to combine similar partitions

**Answer: A**

Explanation:

coalesce(n) reduces the number of partitions without triggering a full shuffle, unlike repartition().

This is ideal when reducing partition count, especially during write operations.

### NEW QUESTION # 83

A data engineer is reviewing a Spark application that applies several transformations to a DataFrame but notices that the job does not start executing immediately.

Which two characteristics of Apache Spark's execution model explain this behavior?

Choose 2 answers:

- **A. Transformations are evaluated lazily.**
- B. The Spark engine optimizes the execution plan during the transformations, causing delays.
- **C. Only actions trigger the execution of the transformation pipeline.**
- D. The Spark engine requires manual intervention to start executing transformations.
- E. Transformations are executed immediately to build the lineage graph.

**Answer: A,C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Apache Spark employs a lazy evaluation model for transformations. This means that when transformations (e.g., `map()`, `filter()`) are applied to a `DataFrame`, Spark does not execute them immediately. Instead, it builds a logical plan (lineage) of transformations to be applied.

Execution is deferred until an action (e.g., `collect()`, `count()`, `save()`) is called. At that point, Spark's Catalyst optimizer analyzes the logical plan, optimizes it, and then executes the physical plan to produce the result.

This lazy evaluation strategy allows Spark to optimize the execution plan, minimize data shuffling, and improve overall performance by reducing unnecessary computations.

## NEW QUESTION # 84

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