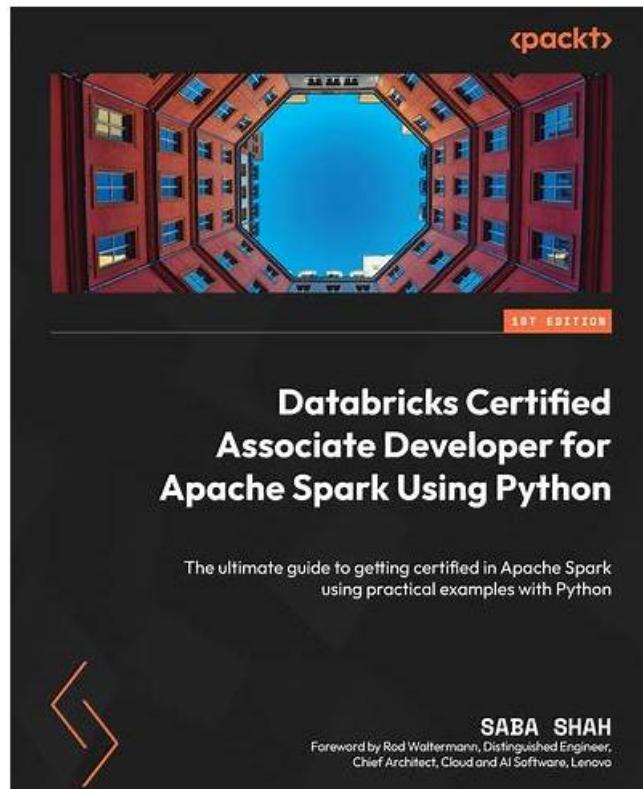


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## Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q75-Q80):

### NEW QUESTION # 75

An engineer has two DataFrames: df1 (small) and df2 (large). A broadcast join is used:

python

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```
from pyspark.sql.functions import broadcast
```

```
result = df2.join(broadcast(df1), on='id', how='inner')
```

What is the purpose of using broadcast() in this scenario?

Options:

- A. It filters the id values before performing the join.
- B. It ensures that the join happens only when the id values are identical.
- C. It reduces the number of shuffle operations by replicating the smaller DataFrame to all nodes.**
- D. It increases the partition size for df1 and df2.

**Answer: C**

Explanation:

broadcast(df1) tells Spark to send the small DataFrame (df1) to all worker nodes.

This eliminates the need for shuffling df1 during the join.

Broadcast joins are optimized for scenarios with one large and one small table.

Reference:Spark SQL Performance Tuning Guide - Broadcast Joins

### NEW QUESTION # 76

A data scientist wants each record in the DataFrame to contain:

The first attempt at the code does read the text files but each record contains a single line. This code is shown below:

The entire contents of a file

The full file path

The issue: reading line-by-line rather than full text per file.

Code:

```
corpus = spark.read.text("/datasets/raw_txt/*") \
.select('*', '_metadata.file_path')
```

Which change will ensure one record per file?

Options:

- A. Add the option wholetext=True to the text() function**
- B. Add the option lineSep="," to the text() function
- C. Add the option lineSep='\n' to the text() function
- D. Add the option wholetext=False to the text() function

**Answer: A**

Explanation:

To read each file as a single record, use:

```
spark.read.text(path, wholetext=True)
```

This ensures that Spark reads the entire file contents into one row.

Reference:Spark read.text() with wholetext

### NEW QUESTION # 77

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 equal to the total number of CPUs in the cluster
- 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 to a fixed value, such as 200
- D. Set the number of partitions equal to the number of nodes in the cluster

**Answer: B**

Explanation:

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

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.

### NEW QUESTION # 78

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

**Answer: B,D**

Explanation:

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 # 79

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

**Answer: D**

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 # 80

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