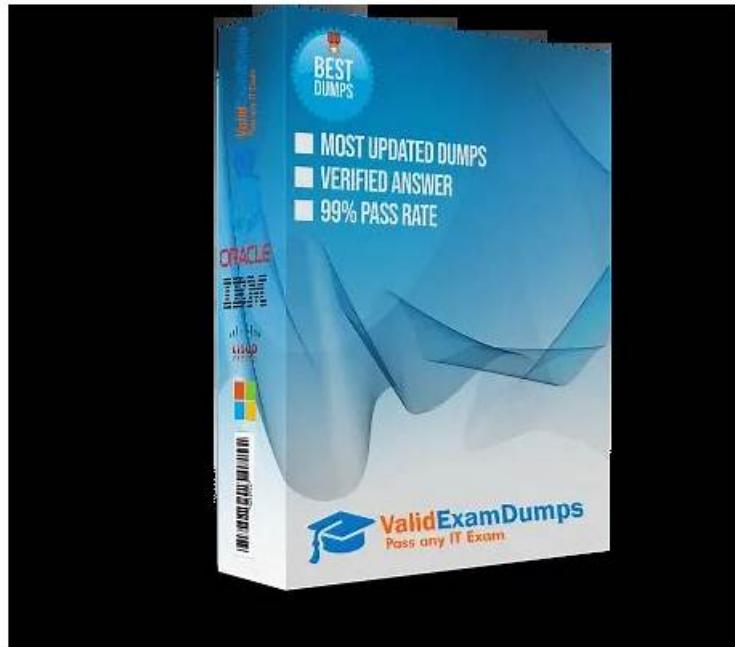


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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q34-Q39):

NEW QUESTION # 34

17 of 55.

A data engineer has noticed that upgrading the Spark version in their applications from Spark 3.0 to Spark 3.5 has improved the runtime of some scheduled Spark applications.

Looking further, the data engineer realizes that Adaptive Query Execution (AQE) is now enabled.

Which operation should AQE be implementing to automatically improve the Spark application performance?

- A. Dynamically switching join strategies
- B. Improving the performance of single-stage Spark jobs
- C. Collecting persistent table statistics and storing them in the metastore for future use
- D. Optimizing the layout of Delta files on disk

Answer: A

Explanation:

Adaptive Query Execution (AQE) in Spark 3.x automatically optimizes query plans at runtime based on the actual data characteristics observed during job execution.

Key features of AQE include:

Dynamic switching of join strategies: Changes between sort-merge join and broadcast join based on actual shuffle sizes.

Coalescing shuffle partitions: Reduces small tasks and improves parallelism efficiency.

Handling skew joins: Dynamically splits large partitions to avoid data skew.

Thus, the most accurate answer describing AQE's function is "dynamically switching join strategies." Why the other options are incorrect:

B: Table statistics are collected manually or by the metastore, not by AQE.

C: AQE benefits multi-stage jobs involving shuffles, not single-stage jobs.

D: Delta file optimization is handled by Databricks utilities, not AQE.

Reference:

Databricks Exam Guide (June 2025): Section "Troubleshooting and Tuning Apache Spark DataFrame API Applications" - covers AQE and its benefits.

Spark 3.5 Release Notes - Adaptive Query Execution dynamic optimizations.

NEW QUESTION # 35

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 # 36

A data engineer is working on a real-time analytics pipeline using Apache Spark Structured Streaming. The engineer wants to process incoming data and ensure that triggers control when the query is executed. The system needs to process data in micro-batches with a fixed interval of 5 seconds.

Which code snippet the data engineer could use to fulfil this requirement?

A)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(continuous='5 seconds') \
    .start()
```

B)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger() \
    .start()
```

C)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(processingTime='5 seconds') \
    .start()
```

D)

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(processingTime=5000) \
    .start()
```

Options:

- A. Uses trigger(processingTime='5 seconds') - correct micro-batch trigger with interval.
- B. Uses trigger() - default micro-batch trigger without interval.
- C. Uses trigger(processingTime=5000) - invalid, as processingTime expects a string.
- D. Uses trigger(continuous='5 seconds') - continuous processing mode.

Answer: A

Explanation:

To define a micro-batch interval, the correct syntax is:

```
query = df.writeStream \
    .outputMode("append") \
    .trigger(processingTime='5 seconds') \
    .start()
```

This schedules the query to execute every 5 seconds.

Continuous mode (used in Option A) is experimental and has limited sink support.

Option D is incorrect because processingTime must be a string (not an integer).

Option B triggers as fast as possible without interval control.

Reference:Spark Structured Streaming - Triggers

NEW QUESTION # 37

What is the behavior for function date_sub(start, days) if a negative value is passed into the days parameter?

- A. The same start date will be returned
- B. The number of days specified will be removed from the start date
- C. The number of days specified will be added to the start date
- D. An error message of an invalid parameter will be returned

Answer: C

Explanation:

The function `date_sub(start, days)` subtracts the number of days from the start date. If a negative number is passed, the behavior becomes a date addition.

Example:

```
SELECT date_sub('2024-05-01', -5)
```

-- Returns: 2024-05-06

So, a negative value effectively adds the absolute number of days to the date.

NEW QUESTION # 38

What is the behavior for function `date_sub(start, days)` if a negative value is passed into the `days` parameter?

- A. The same start date will be returned
- B. The number of days specified will be removed from the start date
- **C. The number of days specified will be added to the start date**
- D. An error message of an invalid parameter will be returned

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The function `date_sub(start, days)` subtracts the number of days from the start date. If a negative number is passed, the behavior becomes a date addition.

Example:

```
SELECT date_sub('2024-05-01', -5)
```

-- Returns: 2024-05-06

So, a negative value effectively adds the absolute number of days to the date.

Reference: Spark SQL Functions # `date_sub()`

NEW QUESTION # 39

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