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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q57-Q62):

NEW QUESTION # 57

16 of 55.

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

Answer: A,C

Explanation:

Apache Spark follows a lazy evaluation model, meaning transformations (like `filter()`, `select()`, `map()`) are not executed immediately. Instead, they build a logical plan (lineage graph) that represents the sequence of operations to be applied.

Execution only begins when an action (e.g., `count()`, `collect()`, `save()`, `show()`) is called. At that point, Spark's engine:

Optimizes the logical plan into a physical plan.

Divides it into stages and tasks.

Executes them across the cluster.

This design helps Spark optimize execution paths and avoid unnecessary computations.

Why the other options are incorrect:

A: Transformations do not execute immediately; they are deferred.

B: Optimization happens during job execution (after an action), not during transformations.

D: Execution starts automatically once an action is triggered, no manual intervention needed.

Reference:

Databricks Exam Guide (June 2025): Section "Apache Spark Architecture and Components" - covers lazy evaluation, actions vs. transformations, and execution hierarchy.

Spark 3.5 Documentation - Lazy Evaluation model and DAG scheduling.

NEW QUESTION # 58

A Data Analyst needs to retrieve employees with 5 or more years of tenure.

Which code snippet filters and shows the list?

- A. `employees_df.filter(employees_df.tenure >= 5).collect()`
- B. `employees_df.where(employees_df.tenure >= 5)`
- C. `filter(employees_df.tenure >= 5)`
- **D. `employees_df.filter(employees_df.tenure >= 5).show()`**

Answer: D

Explanation:

To filter rows based on a condition and display them in Spark, use `filter(...).show()`:

```
employees_df.filter(employees_df.tenure >= 5).show()
```

Option A is correct and shows the results.

Option B filters but doesn't display them.

Option C uses Python's built-in filter, not Spark.

Option D collects the results to the driver, which is unnecessary if `.show()` is sufficient.

Final answer: A

NEW QUESTION # 59

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 has built-in fault tolerance, allowing it to recover seamlessly from node failures during computation.**

- D. It eliminates the need to write any code, automatically handling all data processing.
- E. It requires specialized hardware to run, making it unsuitable for commodity hardware clusters.

Answer: A,C

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 # 60

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:

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

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.

NEW QUESTION # 61

Given this code:

```
inputStream
  .withWatermark("event_time", "10 minutes")
  .groupBy(window("event_time", "15 minutes"))
  .count()
```

```
.withWatermark("event_time","10 minutes")
.groupBy(window("event_time","15 minutes"))
.count()
```

What happens to data that arrives after the watermark threshold?

Options:

- A. Any data arriving more than 10 minutes after the watermark threshold will be ignored and not included in the aggregation.
- B. Data arriving more than 10 minutes after the latest watermark will still be included in the aggregation but will be placed into the next window.
- C. Records that arrive later than the watermark threshold (10 minutes) will automatically be included in the aggregation if they fall within the 15-minute window.
- D. The watermark ensures that late data arriving within 10 minutes of the latest event_time will be processed and included in the windowed aggregation.

Answer: A

Explanation:

According to Spark's watermarking rules:

"Records that are older than the watermark (event_time < current watermark) are considered too late and are dropped." So, if a record's event_time is earlier than (max event_time seen so far - 10 minutes), it is discarded.

Reference: Structured Streaming - Handling Late Data

NEW QUESTION # 62

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