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

NEW QUESTION # 57

What is the benefit of Adaptive Query Execution (AQE)?

- A. It optimizes query execution by parallelizing tasks and does not adjust strategies based on runtime metrics like data skew.
- B. It automatically distributes tasks across nodes in the clusters and does not perform runtime adjustments to the query plan.
- C. It allows Spark to optimize the query plan before execution but does not adapt during runtime.
- D. It enables the adjustment of the query plan during runtime, handling skewed data, optimizing join strategies, and improving

overall query performance.

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Adaptive Query Execution (AQE) is a powerful optimization framework introduced in Apache Spark 3.0 and enabled by default since Spark 3.2. It dynamically adjusts query execution plans based on runtime statistics, leading to significant performance improvements. The key benefits of AQE include:

Dynamic Join Strategy Selection: AQE can switch join strategies at runtime. For instance, it can convert a sort-merge join to a broadcast hash join if it detects that one side of the join is small enough to be broadcasted, thus optimizing the join operation.

Handling Skewed Data: AQE detects skewed partitions during join operations and splits them into smaller partitions. This approach balances the workload across tasks, preventing scenarios where certain tasks take significantly longer due to data skew.

Coalescing Post-Shuffle Partitions: AQE dynamically coalesces small shuffle partitions into larger ones based on the actual data size, reducing the overhead of managing numerous small tasks and improving overall query performance.

These runtime optimizations allow Spark to adapt to the actual data characteristics during query execution, leading to more efficient resource utilization and faster query processing times.

NEW QUESTION # 58

26 of 55.

A data scientist at an e-commerce company is working with user data obtained from its subscriber database and has stored the data in a DataFrame `df_user`.

Before further processing, the data scientist wants to create another DataFrame `df_user_non_pii` and store only the non-PII columns.

The PII columns in `df_user` are `name`, `email`, and `birthdate`.

Which code snippet can be used to meet this requirement?

- A. `df_user_non_pii = df_user.drop("name", "email", "birthdate")`
- B. `df_user_non_pii = df_user.dropFields("name", "email", "birthdate")`
- C. `df_user_non_pii = df_user.remove("name", "email", "birthdate")`
- D. `df_user_non_pii = df_user.select("name", "email", "birthdate")`

Answer: A

Explanation:

To exclude sensitive (PII) columns from a DataFrame, the easiest method is to use the `.drop()` function with the list of column names to remove.

Correct syntax:

```
df_user_non_pii = df_user.drop("name", "email", "birthdate")
```

This creates a new DataFrame containing all remaining columns.

Why the other options are incorrect:

B: `.dropFields()` is not valid for standard DataFrames - it's used for struct fields only.

C: `.select()` would keep only PII columns, not remove them.

D: `.remove()` does not exist in Spark DataFrame API.

Reference:

PySpark DataFrame API - `drop()` method for removing multiple columns.

Databricks Exam Guide (June 2025): Section "Developing Apache Spark DataFrame/DataSet API Applications" - data manipulation, selecting, and dropping columns.

NEW QUESTION # 59

35 of 55.

A data engineer is building a Structured Streaming pipeline and wants it to recover from failures or intentional shutdowns by continuing where it left off.

How can this be achieved?

- A. By configuring the option `checkpointLocation` during `readStream`.
- B. By configuring the option `recoveryLocation` during `SparkSession` initialization.
- C. By configuring the option `checkpointLocation` during `writeStream`.
- D. By configuring the option `recoveryLocation` during `writeStream`.

Answer: C

Explanation:

In Structured Streaming, checkpoints store state information (offsets, progress, and metadata) needed to resume a stream after a failure or restart.

Correct usage:

Set the checkpointLocation option when writing the streaming output:

```
streaming_df.writeStream\  
.format("delta")\  
.option("checkpointLocation", "/path/to/checkpoint/dir")\  
.start("/path/to/output")
```

Spark uses this checkpoint directory to recover progress automatically and maintain exactly-once semantics.

Why the other options are incorrect:

A/D: recoveryLocation is not a valid Spark configuration option.

B: Checkpointing must be configured in writeStream, not during readStream.

Reference:

PySpark Structured Streaming Guide - Checkpointing and recovery.

Databricks Exam Guide (June 2025): Section "Structured Streaming" - explains checkpointing and fault-tolerant streaming recovery.

NEW QUESTION # 60

A DataFrame `df` has columns `name`, `age`, and `salary`. The developer needs to sort the DataFrame by `age` in ascending order and `salary` in descending order.

Which code snippet meets the requirement of the developer?

- A. `df.sort("age", "salary", ascending=[True, True]).show()`
- B. `df.sort("age", "salary", ascending=[False, True]).show()`
- C. `df.orderBy(col("age").asc(), col("salary").asc()).show()`
- D. `df.orderBy("age", "salary", ascending=[True, False]).show()`

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To sort a PySpark DataFrame by multiple columns with mixed sort directions, the correct usage is:

python

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```
df.orderBy("age", "salary", ascending=[True, False])
```

`age` will be sorted in ascending order

`salary` will be sorted in descending order

The `orderBy()` and `sort()` methods in PySpark accept a list of booleans to specify the sort direction for each column.

Documentation Reference: PySpark API - DataFrame.orderBy

NEW QUESTION # 61

What is the relationship between jobs, stages, and tasks during execution in Apache Spark?

Options:

- A. A stage contains multiple tasks, and each task contains multiple jobs.
- B. A job contains multiple stages, and each stage contains multiple tasks.
- C. A stage contains multiple jobs, and each job contains multiple tasks.
- D. A job contains multiple tasks, and each task contains multiple stages.

Answer: B

Explanation:

A Spark job is triggered by an action (e.g., `count`, `show`).

The job is broken into stages, typically one per shuffle boundary.

Each stage is divided into multiple tasks, which are distributed across worker nodes.

NEW QUESTION # 62

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