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Databricks Certified Professional Data Engineer Exam Sample Questions (Q75-Q80):

NEW QUESTION # 75

A user new to Databricks is trying to troubleshoot long execution times for some pipeline logic they are working on. Presently, the user is executing code cell-by-cell, using `display()` calls to confirm code is producing the logically correct results as new transformations are added to an operation. To get a measure of average time to execute, the user is running each cell multiple times

interactively.

Which of the following adjustments will get a more accurate measure of how code is likely to perform in production?

- A. Production code development should only be done using an IDE; executing code against a local build of open source Spark and Delta Lake will provide the most accurate benchmarks for how code will perform in production.
- **B. Calling `display()` forces a job to trigger, while many transformations will only add to the logical query plan; because of caching, repeated execution of the same logic does not provide meaningful results.**
- C. The Jobs UI should be leveraged to occasionally run the notebook as a job and track execution time during incremental code development because Photon can only be enabled on clusters launched for scheduled jobs.
- D. The only way to meaningfully troubleshoot code execution times in development notebooks is to use production-sized data and production-sized clusters with Run All execution.
- E. Scala is the only language that can be accurately tested using interactive notebooks; because the best performance is achieved by using Scala code compiled to JARs, all PySpark and Spark SQL logic should be refactored.

Answer: B

Explanation:

In Databricks notebooks, using the `display()` function triggers an action that forces Spark to execute the code and produce a result. However, Spark operations are generally divided into transformations and actions.

Transformations create a new dataset from an existing one and are lazy, meaning they are not computed immediately but added to a logical plan. Actions, like `display()`, trigger the execution of this logical plan.

Repeatedly running the same code cell can lead to misleading performance measurements due to caching.

When a dataset is used multiple times, Spark's optimization mechanism caches it in memory, making subsequent executions faster. This behavior does not accurately represent the first-time execution performance in a production environment where data might not be cached yet.

To get a more realistic measure of performance, it is recommended to:

- * Clear the cache or restart the cluster to avoid the effects of caching.
- * Test the entire workflow end-to-end rather than cell-by-cell to understand the cumulative performance.
- * Consider using a representative sample of the production data, ensuring it includes various cases the code will encounter in production.

References:

- * Databricks Documentation on Performance Optimization: Databricks Performance Tuning
- * Apache Spark Documentation: RDD Programming Guide - Understanding transformations and actions

NEW QUESTION # 76

The Databricks CLI is used to trigger a run of an existing job by passing the `job_id` parameter. The response indicating the job run request was submitted successfully includes a field `run_id`. Which statement describes what the number alongside this field represents?

- **A. The globally unique ID of the newly triggered run.**
- B. The `job_id` and number of times the job has been run are concatenated and returned.
- C. The number of times the job definition has been run in this workspace.
- D. The `job_id` is returned in this field.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Exact extract: "run_id: The canonical identifier of a run."

Exact extract: "Each job run has a unique run_id."

When a run is created via the Jobs API/CLI, Databricks returns a unique `run_id` for that specific run instance, distinct from the job's `job_id`.

Reference:

NEW QUESTION # 77

You are asked to write a python function that can read data from a delta table and return the Data-Frame, which of the following is correct?

- A. Write SQL UDF to return a DataFrame

- B. Python function cannot return a DataFrame
- C. Python function can return a DataFrame
- D. Write SQL UDF that can return tabular data
- E. Python function will result in out of memory error due to data volume

Answer: E

Explanation:

Explanation

The answer is Python function can return a DataFrame

The function would something like this,

1.get_source_dataframe(tablename):

2. df= spark.read.table(tablename)

3.return df

df= get_source_dataframe('test_table')

since there is no action spark returns a Dataframe and assigns to df python variable

NEW QUESTION # 78

A junior data engineer has configured a workload that posts the following JSON to the Databricks REST API endpoint 2.0/jobs/create.

Assuming that all configurations and referenced resources are available, which statement describes the result of executing this workload three times?

- A. The logic defined in the referenced notebook will be executed three times on new clusters with the configurations of the provided cluster ID.
- B. The logic defined in the referenced notebook will be executed three times on the referenced existing all purpose cluster.
- C. Three new jobs named "Ingest new data" will be defined in the workspace, and they will each run once daily.
- D. Three new jobs named "Ingest new data" will be defined in the workspace, but no jobs will be executed.
- E. One new job named "Ingest new data" will be defined in the workspace, but it will not be executed.

Answer: B

Explanation:

This is the correct answer because the JSON posted to the Databricks REST API endpoint 2.0/jobs/create defines a new job with a name, an existing cluster id, and a notebook task. However, it does not specify any schedule or trigger for the job execution. Therefore, three new jobs with the same name and configuration will be created in the workspace, but none of them will be executed until they are manually triggered or scheduled.

Verified References: [Databricks Certified Data Engineer Professional], under "Monitoring & Logging" section; [Databricks Documentation], under "Jobs API - Create" section.

NEW QUESTION # 79

A junior data engineer is working to implement logic for a Lakehouse table named silver_device_recordings.

The source data contains 100 unique fields in a highly nested JSON structure.

The silver_device_recordings table will be used downstream for highly selective joins on a number of fields, and will also be leveraged by the machine learning team to filter on a handful of relevant fields, in total, 15 fields have been identified that will often be used for filter and join logic.

The data engineer is trying to determine the best approach for dealing with these nested fields before declaring the table schema.

Which of the following accurately presents information about Delta Lake and Databricks that may impact their decision-making process?

- A. By default Delta Lake collects statistics on the first 32 columns in a table; these statistics are leveraged for data skipping when executing selective queries.
- B. Because Delta Lake uses Parquet for data storage, Dremel encoding information for nesting can be directly referenced by the Delta transaction log.
- C. Tungsten encoding used by Databricks is optimized for storing string data: newly-added native support for querying JSON strings means that string types are always most efficient.
- D. Schema inference and evolution on Databricks ensure that inferred types will always accurately match the data types used by downstream systems.

Answer: A

Explanation:

Delta Lake, built on top of Parquet, enhances query performance through data skipping, which is based on the statistics collected for each file in a table. For tables with a large number of columns, Delta Lake by default collects and stores statistics only for the first 32 columns. These statistics include min/max values and null counts, which are used to optimize query execution by skipping irrelevant data files. When dealing with highly nested JSON structures, understanding this behavior is crucial for schema design, especially when determining which fields should be flattened or prioritized in the table structure to leverage data skipping efficiently for performance optimization. References: Databricks documentation on Delta Lake optimization techniques, including data skipping and statistics collection (<https://docs.databricks.com/delta/optimizations/index.html>).

NEW QUESTION # 80

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