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Databricks Certified Professional Data Engineer Exam Sample Questions (Q121-Q126):

NEW QUESTION # 121

A Spark job is taking longer than expected. Using the Spark UI, a data engineer notes that the Min, Median, and Max Durations for tasks in a particular stage show the minimum and median time to complete a task as roughly the same, but the max duration for a task to be roughly 100 times as long as the minimum.

Which situation is causing increased duration of the overall job?

- A. Network latency due to some cluster nodes being in different regions from the source data
- B. Spill resulting from attached volume storage being too small.
- C. Credential validation errors while pulling data from an external system.
- D. Task queueing resulting from improper thread pool assignment.
- E. **Skew caused by more data being assigned to a subset of spark-partitions.**

Answer: E

Explanation:

This is the correct answer because skew is a common situation that causes increased duration of the overall job. Skew occurs when some partitions have more data than others, resulting in uneven distribution of work among tasks and executors. Skew can be caused by various factors, such as skewed data distribution, improper partitioning strategy, or join operations with skewed keys. Skew can lead to performance issues such as long-running tasks, wasted resources, or even task failures due to memory or disk spills. Verified References:

[Databricks Certified Data Engineer Professional], under "Performance Tuning" section; Databricks Documentation, under "Skew" section.

NEW QUESTION # 122

Unity catalog helps you manage the below resources in Databricks at account level

- A. Dashboards
- B. ML Models
- C. Tables
- D. **All of the above**
- E. Meta Stores and Catalogs

Answer: D

Explanation:

Explanation

The answer is all of the above.

Unity Catalog is a unified governance solution for all data and AI assets including files, tables, machine learning models, and dashboards in your lakehouse on any cloud.

NEW QUESTION # 123

Which statement characterizes the general programming model used by Spark Structured Streaming?

- A. Structured Streaming is implemented as a messaging bus and is derived from Apache Kafka.
- B. Structured Streaming uses specialized hardware and I/O streams to achieve sub-second latency for data transfer.
- C. Structured Streaming relies on a distributed network of nodes that hold incremental state values for cached stages.
- D. Structured Streaming leverages the parallel processing of GPUs to achieve highly parallel data throughput.
- E. **Structured Streaming models new data arriving in a data stream as new rows appended to an unbounded table.**

Answer: E

Explanation:

This is the correct answer because it characterizes the general programming model used by Spark Structured Streaming, which is to treat a live data stream as a table that is being continuously appended. This leads to a new stream processing model that is very similar to a batch processing model, where users can express their streaming computation using the same Dataset/DataFrame API as they would use for static data. The Spark SQL engine will take care of running the streaming query incrementally and continuously and updating the final result as streaming data continues to arrive. Verified Reference: [Databricks Certified Data Engineer Professional], under "Structured Streaming" section; Databricks Documentation, under "Overview" section.

NEW QUESTION # 124

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. Schema inference and evolution on Databricks ensure that inferred types will always accurately match the data types used by downstream systems.
- B. Because Delta Lake uses Parquet for data storage, Dremel encoding information for nesting can be directly referenced by the Delta transaction log.
- C. 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.
- D. 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.

Answer: C

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.

Databricks documentation on Delta Lake optimization techniques, including data skipping and statistics collection (<https://docs.databricks.com/delta/optimizations/index.html>).

NEW QUESTION # 125

A data architect has heard about lake's built-in versioning and time travel capabilities. For auditing purposes they have a requirement to maintain a full of all valid street addresses as they appear in the customers table.

The architect is interested in implementing a Type 1 table, overwriting existing records with new values and relying on Delta Lake time travel to support long-term auditing. A data engineer on the project feels that a Type 2 table will provide better performance and scalability.

Which piece of information is critical to this decision?

- A. Delta Lake time travel does not scale well in cost or latency to provide a long-term versioning solution.
- B. Data corruption can occur if a query fails in a partially completed state because Type 2 tables require Setting multiple fields in a single update.
- C. Shallow clones can be combined with Type 1 tables to accelerate historic queries for long-term versioning.
- D. Delta Lake time travel cannot be used to query previous versions of these tables because Type 1 changes modify data files in place.

Answer: A

Explanation:

Delta Lake's time travel feature allows users to access previous versions of a table, providing a powerful tool for auditing and versioning. However, using time travel as a long-term versioning solution for auditing purposes can be less optimal in terms of cost and performance, especially as the volume of data and the number of versions grow. For maintaining a full history of valid street addresses as they appear in a customers table, using a Type 2 table (where each update creates a new record with versioning) might provide better scalability and performance by avoiding the overhead associated with accessing older versions of a large table.

While Type 1 tables, where existing records are overwritten with new values, seem simpler and can leverage time travel for auditing, the critical piece of information is that time travel might not scale well in cost or latency for long-term versioning needs, making a Type 2 approach more viable for performance and scalability.

* Databricks Documentation on Delta Lake's Time Travel: Delta Lake Time Travel

* Databricks Blog on Managing Slowly Changing Dimensions in Delta Lake: Managing SCDs in Delta Lake

NEW QUESTION # 126

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