



Why are the cloned tables no longer working?

- A. Running vacuum automatically invalidates any shallow clones of a table; deep clone should always be used when a cloned table will be repeatedly queried.
- **B. The metadata created by the clone operation is referencing data files that were purged as invalid by the vacuum command**
- C. Because Type 1 changes overwrite existing records, Delta Lake cannot guarantee data consistency for cloned tables.
- D. The data files compacted by vacuum are not tracked by the cloned metadata; running refresh on the cloned table will pull in recent changes.
- E. Tables created with SHALLOW CLONE are automatically deleted after their default retention threshold of 7 days.

**Answer: B**

Explanation:

In Delta Lake, a shallow clone creates a new table by copying the metadata of the source table without duplicating the data files. When the vacuum command is run on the source table, it removes old data files that are no longer needed to maintain the transactional log's integrity, potentially including files referenced by the shallow clone's metadata. If these files are purged, the shallow cloned tables will reference non-existent data files, causing them to stop working properly. This highlights the dependency of shallow clones on the source table's data files and the impact of data management operations like vacuum on these clones.

#### NEW QUESTION # 144

A company wants to implement Lakehouse Federation across multiple data sources but is concerned about data consistency and ensuring that all teams access the same authoritative version of their data. Which statement is applicable for Lakehouse Federations to maintain data consistency?

- A. A separate data synchronization service must be deployed.
- **B. Federation provides read-only access that reflects the current state of source systems.**
- C. Federation implements change data capture (CDC) from all sources.
- D. Federation creates local copies that must be manually refreshed.

**Answer: B**

Explanation:

Lakehouse Federation allows Databricks to query and manage external data sources through a single governance layer, without moving or copying data. The documentation specifies that "Federated queries provide read-only access to data, reflecting the current state of the underlying source system." This ensures consistency across teams since all users access the same source of truth directly from the external system through Unity Catalog. Federation does not perform CDC replication or local caching; it queries live data on demand. Hence, option B accurately represents how Lakehouse Federation maintains consistency across federated sources.

#### NEW QUESTION # 145

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. Get Latest & Actual Certified-Data-Engineer-Professional Exam's Question and Answers from 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. Because Delta Lake uses Parquet for data storage, Dremel encoding information for nesting can be directly referenced by the Delta transaction log.
- B. 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.
- C. Schema inference and evolution on Databricks ensure that inferred types will always accurately match the data types used by downstream systems.
- **D. 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.**

**Answer: D**

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.

#### NEW QUESTION # 146

A data engineer needs to productionize a new Spark application written by teammate. This application has numerous external dependencies, including libraries, and requires custom environment variables and Spark configuration parameters to be set. Which two methods will help the data engineer accomplish the task? (Choose two.)

- A. Install libraries on DBFS
- **B. Use compute policies to set system properties, environment variables, and Spark configuration parameters.**
- C. Use secrets in init scripts to store configuration data
- **D. Create init scripts on DBFS.**
- E. Add libraries to compute policies

**Answer: B,D**

Explanation:

Compute policies allow centrally defining and enforcing Spark configuration parameters, system properties, and environment variables required by the application, ensuring consistent production settings. Init scripts enable installing external dependencies and performing custom environment setup at cluster startup, making them essential for productionizing Spark applications with complex dependency and configuration requirements.

#### NEW QUESTION # 147

A data engineer is using the AUTO CDC API in Lakeflow Spark Declarative Pipeline to propagate deletions from a source table (orders\_source) to a target table (orders\_target). The source has Change Data Feed (CDF) enabled, but some delete events arrive out of order due to upstream delays. How does the AUTO CDC API internally ensure deletions are applied correctly despite out-of-order events?

- A. It ignores deletions if they arrive after updates for the same key.
- B. It runs VACUUM on the target table to purge conflicting records.
- C. It manually sorts incoming events by timestamp before applying changes.
- **D. It uses sequence\_by to order events and retains tombstones for deleted rows until older sequences are processed.**

**Answer: D**

Explanation:

AUTO CDC uses the sequence\_by column to deterministically order change events for each key.

Delete operations create tombstones that are retained until all earlier sequence values have been processed, ensuring that out-of-order delete events are still applied correctly and consistently in the target table.

#### NEW QUESTION # 148

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