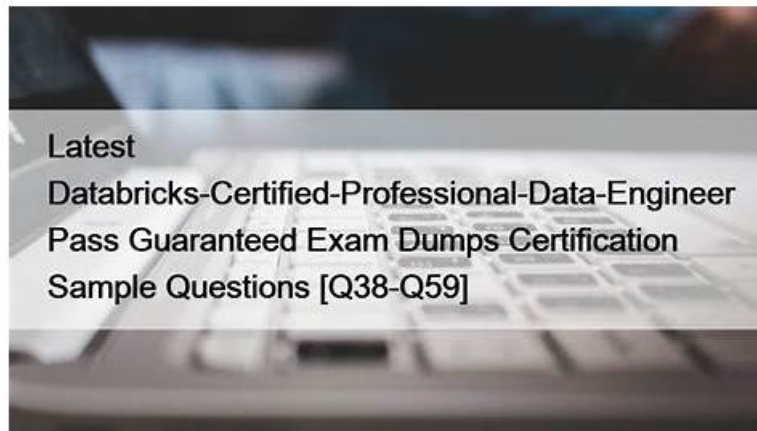


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Databricks Certified Professional Data Engineer Exam Sample Questions (Q160-Q165):

NEW QUESTION # 160

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

Answer: B

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 # 161

A data engineer has a Delta table orders with deletion vectors enabled. The engineer executes the following command:
DELETE FROM orders WHERE status = 'cancelled' ;

What should be the behavior of deletion vectors when the command is executed?

- **A. Rows are marked as deleted in metadata, not in files.**
- B. Delta automatically removes all cancelled orders permanently.
- C. Rows are marked as deleted both in metadata and in files.
- D. Files are physically rewritten without the deleted rows.

Answer: A

Explanation:

Deletion vectors (DVs) in Delta Lake optimize delete operations by marking deleted rows logically in metadata rather than rewriting Parquet files. When a DELETE statement is executed, affected rows are tracked by DVs in the transaction log. The data remains in the underlying files but is filtered out during query reads. This improves performance for frequent deletes and updates since file rewrites are deferred. Physical data removal only occurs when a VACUUM command is later executed. The Databricks documentation confirms: "With deletion vectors, deleted rows are marked in metadata and skipped at read time, avoiding file rewrites." Thus, rows are marked as deleted in metadata-not in files.

NEW QUESTION # 162

An analytics team wants to run a short-term experiment in Databricks SQL on the customer transactions Delta table (about 20 billion records) created by the data engineering team. Which strategy should the data engineering team use to ensure minimal downtime and no impact on the ongoing ETL processes?

- **A. Shallow clone the table for the analytics team**
- B. Give the analytics team direct access to the production table.
- C. Create a new table for the analytics team using a CTAS statement.
- D. Deep clone the table for the analytics team.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

* Exact extract: "A shallow clone creates a copy of the metadata that references the source data files; it is fast and inexpensive."

* Exact extract: "A deep clone copies the data."

References: Delta Lake cloning (shallow vs deep).

NEW QUESTION # 163

A senior data engineer is planning large-scale data workflows. The task is to identify the considerations that form a foundation for creating scalable data models for managing large datasets. The team has listed Delta Lake capabilities and wants to determine which feature should not be considered as a core factor.

Which key feature can be ignored while evaluating Delta Lake?

- A. Delta Lake works with various data formats (Parquet, JSON, CSV) and integrates well with Spark and Databricks tools.
- B. Delta Lake's ability to process data in both batch and streaming modes seamlessly, providing flexibility in ingestion and processing.
- C. Delta Lake optimizes metadata handling, efficiently managing billions of files and facilitating scalability to petabyte-scale datasets.
- **D. Delta Lake provides limited support for monitoring and troubleshooting data pipelines, so relevant partner tools have to be identified and set up for enhanced operational efficiency.**

Answer: D

Explanation:

The Databricks documentation emphasizes that Delta Lake provides robust capabilities for batch and streaming unification, scalable metadata management, and seamless integration with Databricks and Apache Spark. These are core design principles for building modern, scalable data platforms. However, the statement claiming that Delta provides "limited support for monitoring and troubleshooting" is not valid. Delta Lake itself includes comprehensive logging, event history tracking, and data lineage via the transaction log, and integrates with Databricks' built-in monitoring tools. Hence, such a limitation is not a design consideration when evaluating Delta Lake's scalability. Therefore, this statement (D) can be ignored, as it does not reflect Delta Lake's documented capabilities.

NEW QUESTION # 164

A team of data engineer are adding tables to a DLT pipeline that contain repetitive expectations for many of the same data quality checks.

One member of the team suggests reusing these data quality rules across all tables defined for this pipeline.

What approach would allow them to do this?

- **A. Maintain data quality rules in a Delta table outside of this pipeline's target schema, providing the schema name as a pipeline parameter.**
- B. Add data quality constraints to tables in this pipeline using an external job with access to pipeline configuration files.
- C. Maintain data quality rules in a separate Databricks notebook that each DLT notebook of file.
- D. Use global Python variables to make expectations visible across DLT notebooks included in the same pipeline.

Answer: A

Explanation:

Maintaining data quality rules in a centralized Delta table allows for the reuse of these rules across multiple DLT (Delta Live Tables) pipelines. By storing these rules outside the pipeline's target schema and referencing the schema name as a pipeline parameter, the team can apply the same set of data quality checks to different tables within the pipeline. This approach ensures consistency in data quality validations and reduces redundancy in code by not having to replicate the same rules in each DLT notebook or file.

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Databricks Documentation on Delta Live Tables: Delta Live Tables Guide

NEW QUESTION # 165

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