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Databricks, a unified analytics platform provider that helps organizations process and analyze large data sets, offers a certification exam for data engineers called the Databricks Certified Professional Data Engineer. Databricks-Certified-Professional-Data-Engineer Exam is designed to test the skills and knowledge of data engineers in building and managing data pipelines, ETL processes, and data architectures within the Databricks platform. Databricks Certified Professional Data Engineer Exam certification is intended to validate the expertise of data engineers in implementing and managing data projects, and to demonstrate their competency in using the Databricks platform.

Databricks Certified Professional Data Engineer Exam Sample Questions (Q102-Q107):

NEW QUESTION # 102

A data engineer is using Lakeflow Declarative Pipeline to propagate row deletions from a source bronze table (user_bronze) to a

target silver table (user_silver). The engineer wants deletions in user_bronze to automatically delete corresponding rows in user_silver during pipeline execution.

Which configuration ensures deletions in the bronze table are propagated to the silver table?

- A. Enable Change Data Feed (CDF) on user_bronze, read its CDF stream, and use apply_changes() with apply_as_deletes=True for user_silver.
- B. Use apply_changes without CDF and filter rows where _soft_deleted is true.
- C. Configure VACUUM on user_bronze to delete files, then rebuild user_silver from scratch.
- D. Enable CDF on user_silver, read its transaction log, and use MERGE to sync deletions.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of Databricks Data Engineer Documents:

According to Databricks documentation, Change Data Feed (CDF) allows pipelines to read incremental data changes, including inserts, updates, and deletes, from a Delta table. When deletions occur in the source table, reading the CDF stream ensures downstream consumers receive the deletion records. The Lakeflow Declarative Pipelines API provides the apply_changes() function (or auto-CDC pipelines) with the apply_as_deletes parameter to correctly apply those deletions to the target table. This enables automatic synchronization between bronze and silver layers. Options A and D either require manual handling or complete rebuilds, and C incorrectly applies CDF to the target rather than the source. Therefore, enabling CDF on the bronze table and using apply_as_deletes=True is the correct, Databricks-supported configuration.

NEW QUESTION # 103

When you drop an external DELTA table using the SQL Command DROP TABLE table_name, how does it impact metadata(delta log, history), and data stored in the storage?

- A. Drops table from metastore, metadata(delta log, history) and data in storage
- B. Drops table from metastore, data but keeps metadata(delta log, history) in storage
- C. Drops table from metastore and data in storage but keeps metadata(delta log, history)
- D. Drops table from metastore, but keeps metadata(delta log, history) and data in storage
- E. Drops table from metastore, metadata(delta log, history) but keeps the data in storage

Answer: D

Explanation:

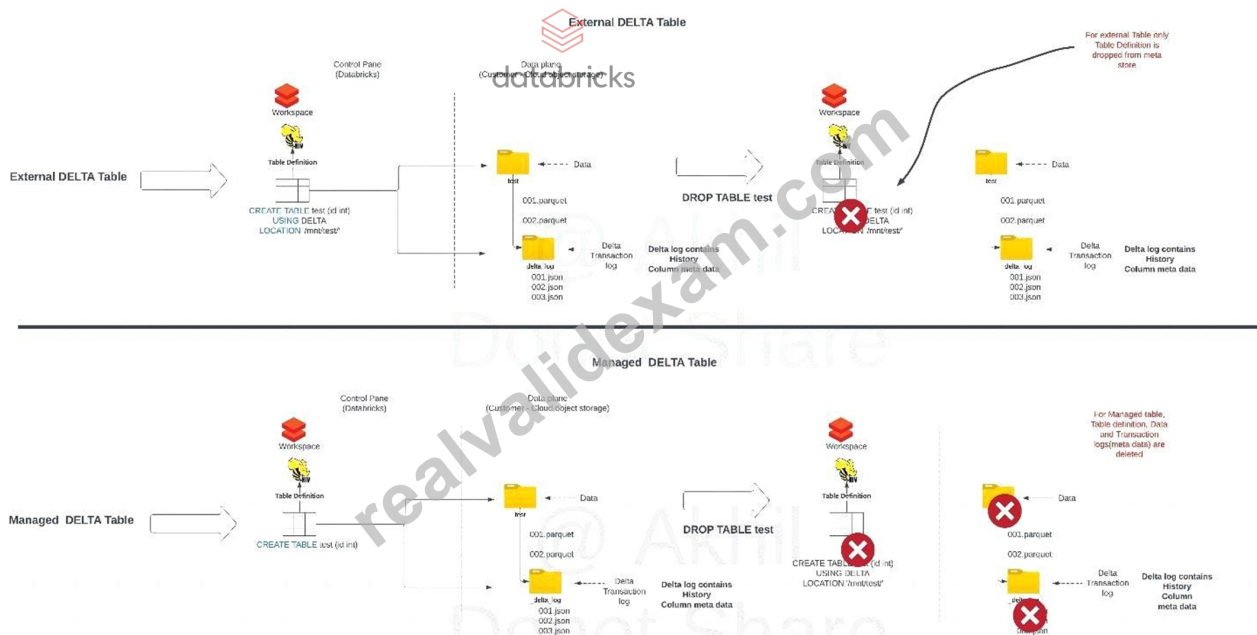
Explanation

The answer is Drops table from metastore, but keeps metadata and data in storage.

When an external table is dropped, only the table definition is dropped from metastore everything including data and metadata(Delta transaction log, time travel history) remains in the storage. Delta log is considered as part of metadata because if you drop a column in a delta table(managed or external) the column is not physically removed from the parquet files rather it is recorded in the delta log. The delta log becomes a key metadata layer for a Delta table to work.

Please see the below image to compare the external delta table and managed delta table and how they differ in how they are created and what happens if you drop the table.

Diagram Description automatically generated



NEW QUESTION # 104

Which of the following statements describes Delta Lake?

- A. Delta Lake is an open format storage layer that processes data
- **B. Delta Lake is an open format storage layer that delivers reliability, security, and performance**
- C. Delta Lake is an open source analytics engine used for big data workloads
- D. Delta Lake is an open source platform to help manage the complete machine learning lifecycle
- E. Delta Lake is an open source data storage format for distributed data

Answer: B

Explanation:

Explanation

Delta Lake

NEW QUESTION # 105

A data engineer is running a groupBy aggregation on a massive user activity log grouped by user_id. A few users have millions of records, causing task skew and long runtimes.

Which technique will fix the skew in this aggregation?

- A. Filter out the skewed users before the aggregation.
- B. Use reduceByKey instead of groupBy to avoid shuffles.
- **C. Use salting by adding a random prefix to skewed keys before aggregation, then aggregate again after removing the prefix.**
- D. Increase the Spark driver memory and retry.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of Databricks Data Engineer Documents:

Task skew occurs when a small subset of keys holds a disproportionate amount of data, causing certain tasks to process significantly more records than others. Databricks documentation recommends salting as an effective mitigation technique.

Salting introduces a random or calculated prefix to skewed keys, distributing records across multiple partitions and balancing the workload during the shuffle stage. After aggregation, a second pass re-aggregates results by removing the prefix to restore key integrity.

Increasing memory (B) does not resolve distribution imbalance; reduceByKey (C) still triggers shuffles; and filtering (D) would remove valid business data. Hence, salting is the correct and officially recommended approach to address skew in Spark aggregations.

NEW QUESTION # 106

The DevOps team has configured a production workload as a collection of notebooks scheduled to run daily using the Jobs UI. A new data engineering hire is onboarding to the team and has requested access to one of these notebooks to review the production logic.

What are the maximum notebook permissions that can be granted to the user without allowing accidental changes to production code or data?

- A. Can Run
- B. Can Read
- **C. No permissions**
- D. Can Edit
- E. Can Manage

Answer: C

Explanation:

This is the correct answer because it is the maximum notebook permissions that can be granted to the user without allowing accidental changes to production code or data. Notebook permissions are used to control access to notebooks in Databricks workspaces. There are four types of notebook permissions: Can Manage, Can Edit, Can Run, and Can Read. Can Manage allows full control over the notebook, including editing, running, deleting, exporting, and changing permissions. Can Edit allows modifying and running the notebook, but not changing permissions or deleting it. Can Run allows executing commands in an existing cluster attached to the notebook, but not modifying or exporting it. Can Read allows viewing the notebook content, but not running or modifying it. In this case, granting Can Read permission to the user will allow them to review the production logic in the notebook without allowing them to make any changes to it or run any commands that may affect production data. Verified References: [Databricks Certified Data Engineer Professional], under "Databricks Workspace" section; Databricks Documentation, under "Notebook permissions" section.

NEW QUESTION # 107

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