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>> **Databricks-Certified-Data-Engineer-Professional Detail Explanation** <<

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## Databricks Certified Data Engineer Professional Exam Sample Questions (Q63-Q68):

### NEW QUESTION # 63

A DLT pipeline includes the following streaming tables:

Raw\_lot ingest raw device measurement data from a heart rate tracking device. Bgm\_stats incrementally computes user statistics based on BPM measurements from raw\_lot. How can the data engineer configure this pipeline to be able to retain manually deleted or updated records in the raw\_lot table while recomputing the downstream table when a pipeline update is run?

- A. Set the skipChangeCommits flag to true on bpm\_stats
- B. Set the pipelines, reset, allowed property to false on bpm\_stats
- C. Set the SkipChangeCommits flag to true raw\_lot
- **D. Set the pipelines, reset, allowed property to false on raw\_lot**

**Answer: D**

Explanation:

In Databricks Lakehouse, to retain manually deleted or updated records in the raw\_lot table while recomputing downstream tables when a pipeline update is run, the property pipelines.reset.allowed should be set to false. This property prevents the system from resetting the state of the table, which includes the removal of the history of changes, during a pipeline update. By keeping this property as false, any changes to the raw\_lot table, including manual deletes or updates, are retained, and recomputation of downstream tables, such as bpm\_stats, can occur with the full history of data changes intact.

#### NEW QUESTION # 64

A Data engineer wants to run unit's tests using common Python testing frameworks on python functions defined across several Databricks notebooks currently used in production. How can the data engineer run unit tests against function that work with data in production?

- A. Define and import unit test functions from a separate Databricks notebook
- B. Define and unit test functions using Files in Repos
- **C. Run unit tests against non-production data that closely mirrors production**
- D. Define units test and functions within the same notebook

**Answer: C**

Explanation:

The best practice for running unit tests on functions that interact with data is to use a dataset that closely mirrors the production data. This approach allows data engineers to validate the logic of their functions without the risk of affecting the actual production data. It's important to have a representative sample of production data to catch edge cases and ensure the functions will work correctly when used in a production environment.

#### NEW QUESTION # 65

The data engineering team is migrating an enterprise system with thousands of tables and views into the Lakehouse. They plan to implement the target architecture using a series of bronze, silver, and gold tables. Bronze tables will almost exclusively be used by production data engineering workloads, while silver tables will be used to support both data engineering and machine learning workloads. Gold tables will largely serve business intelligence and reporting purposes. While personal identifying information (PII) exists in all tiers of data, pseudonymization and anonymization rules are in place for all data at the silver and gold levels. The organization is interested in reducing security concerns while maximizing the ability to collaborate across diverse teams. Which statement exemplifies best practices for implementing this system?

- A. Storing all production tables in a single database provides a unified view of all data assets available throughout the Lakehouse, simplifying discoverability by granting all users view privileges on this database.
- B. Because all tables must live in the same storage containers used for the database they're created in, organizations should be prepared to create between dozens and thousands of databases depending on their data isolation requirements.
- C. Because databases on Databricks are merely a logical construct, choices around database organization do not impact security or discoverability in the Lakehouse.
- D. Working in the default Databricks database provides the greatest security when working with managed tables, as these will be created in the DBFS root.
- **E. Isolating tables in separate databases based on data quality tiers allows for easy permissions management through database ACLs and allows physical separation of default storage locations for managed tables.**

**Answer: E**

Explanation:

This is the correct answer because it exemplifies best practices for implementing this system. By isolating tables in separate databases based on data quality tiers, such as bronze, silver, and gold, the data engineering team can achieve several benefits. First, they can easily manage permissions for different users and groups through database ACLs, which allow granting or revoking access to databases, tables, or views. Second, they can physically separate the default storage locations for managed tables in each

database, which can improve performance and reduce costs. Third, they can provide a clear and consistent naming convention for the tables in each database, which can improve discoverability and usability.

#### NEW QUESTION # 66

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. 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.

#### NEW QUESTION # 67

A Databricks SQL dashboard has been configured to monitor the total number of records present in a collection of Delta Lake tables using the following query pattern:

```
SELECT COUNT (*) FROM table
```

Which of the following describes how results are generated each time the dashboard is updated?

- A. The total count of records is calculated from the Hive metastore
- B. The total count of records is calculated from the Delta transaction logs
- C. The total count of rows will be returned from cached results unless REFRESH is run
- D. The total count of records is calculated from the parquet file metadata
- E. The total count of rows is calculated by scanning all data files

**Answer: B**

Explanation:

Delta Lake maintains a transaction log that records details about every change made to a table.

When you execute a count operation on a Delta table, Delta Lake can use the information in the transaction log to calculate the total number of records without having to scan all the data files.

This is because the transaction log includes information about the number of records in each file, allowing for an efficient aggregation of these counts to get the total number of records in the table.

#### NEW QUESTION # 68

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