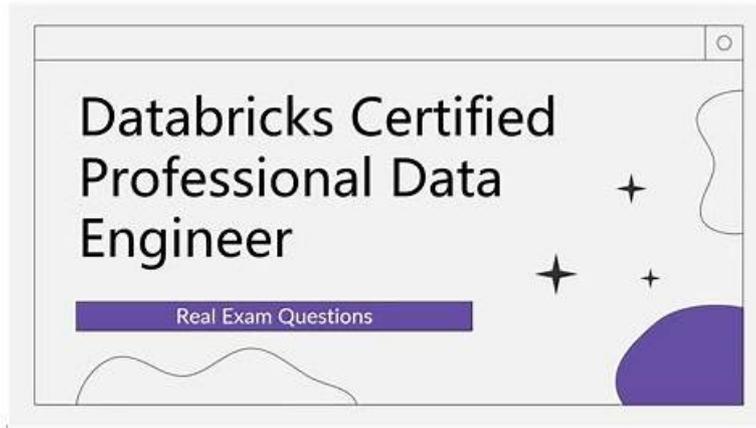


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Databricks Certified Professional Data Engineer Exam Sample Questions (Q137-Q142):

NEW QUESTION # 137

A data ingestion task requires a one-TB JSON dataset to be written out to Parquet with a target part-file size of 512 MB. Because Parquet is being used instead of Delta Lake, built-in file-sizing features such as Auto-Optimize & Auto-Compaction cannot be used. Which strategy will yield the best performance without shuffling data?

- A. Set `spark.sql.adaptive.advisoryPartitionSizeInBytes` to 512 MB bytes, ingest the data, execute the narrow transformations, coalesce to 2,048 partitions ($1\text{TB} * 1024 * 1024 / 512$), and then write to parquet.
- B. Set `spark.sql.shuffle.partitions` to 2,048 partitions ($1\text{TB} * 1024 * 1024 / 512$), ingest the data, execute the narrow

transformations, optimize the data by sorting it (which automatically repartitions the data), and then write to parquet.

- C. Ingest the data, execute the narrow transformations, repartition to 2,048 partitions (1TB* 1024*1024/512), and then write to parquet.
- D. Set spark.sql.files.maxPartitionBytes to 512 MB, ingest the data, execute the narrow transformations, and then write to parquet.
- E. Set spark.sql.shuffle.partitions to 512, ingest the data, execute the narrow transformations, and then write to parquet.

Answer: B

NEW QUESTION # 138

A workspace admin has created a new catalog called `finance_data` and wants to delegate permission management to a finance team lead without giving them full admin rights.

Which privilege should be granted to the finance team lead?

- A. ALL PRIVILEGES on the `finance_data` catalog.
- B. **MANAGE privilege on the `finance_data` catalog.**
- C. Make the finance team lead a metastore admin.
- D. GRANT OPTION privilege on the `finance_data` catalog.

Answer: B

Explanation:

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

The MANAGE privilege in Unity Catalog provides the ability to grant and revoke privileges on the specified object (in this case, a catalog) without giving full administrative access or ownership.

This is the Databricks-recommended approach for delegating governance responsibilities while preserving the principle of least privilege.

By contrast, the ALL PRIVILEGES option grants excessive access (including read and write permissions), and metastore admin status provides global control over all catalogs—far exceeding the requirement. The MANAGE privilege enables the finance team lead to control access to objects within `finance_data` responsibly while limiting overall administrative exposure.

NEW QUESTION # 139

The data architect has mandated that all tables in the Lakehouse should be configured as external Delta Lake tables.

Which approach will ensure that this requirement is met?

- A. When the workspace is being configured, make sure that external cloud object storage has been mounted.
- B. **Whenever a table is being created, make sure that the location keyword is used.**
- C. When tables are created, make sure that the external keyword is used in the create table statement.
- D. Whenever a database is being created, make sure that the location keyword is used
- E. When configuring an external data warehouse for all table storage, leverage Databricks for all ELT.

Answer: B

Explanation:

Explanation

This is the correct answer because it ensures that this requirement is met. The requirement is that all tables in the Lakehouse should be configured as external Delta Lake tables. An external table is a table that is stored outside of the default warehouse directory and whose metadata is not managed by Databricks. An external table can be created by using the location keyword to specify the path to an existing directory in a cloud storage system, such as DBFS or S3. By creating external tables, the data engineering team can avoid losing data if they drop or overwrite the table, as well as leverage existing data without moving or copying it.

Verified References: [Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "Create an external table" section.

NEW QUESTION # 140

The data architect has mandated that all tables in the Lakehouse should be configured as external Delta Lake tables.

Which approach will ensure that this requirement is met?

- A. When the workspace is being configured, make sure that external cloud object storage has been mounted.

- B. Whenever a table is being created, make sure that the location keyword is used.
- C. When tables are created, make sure that the external keyword is used in the create table statement.
- D. Whenever a database is being created, make sure that the location keyword is used
- E. When configuring an external data warehouse for all table storage, leverage Databricks for all ELT.

Answer: B

NEW QUESTION # 141

A platform engineer is creating catalogs and schemas for the development team to use.

The engineer has created an initial catalog, `catalog_A`, and initial schema, `schema_A`. The engineer has also granted `USE CATALOG`, `USE SCHEMA`, and `CREATE TABLE` to the development team so that the engineer can begin populating the schema with new tables.

Despite being owner of the catalog and schema, the engineer noticed that they do not have access to the underlying tables in `Schema_A`.

What explains the engineer's lack of access to the underlying tables?

- A. The owner of the schema does not automatically have permission to tables within the schema, but can grant them to themselves at any point.
- B. The platform engineer needs to execute a `REFRESH` statement as the table permissions did not automatically update for owners.
- C. Permissions explicitly given by the table creator are the only way the Platform Engineer could access the underlying tables in their
- D. Users granted with `USE CATALOG` can modify the owner's permissions to downstream tables.

Answer: A

Explanation:
schema.

Explanation:

In Databricks, catalogs, schemas (or databases), and tables are managed through the Unity Catalog or Hive Metastore, depending on the environment. Permissions and ownership within these structures are governed by access control lists (ACLs).

Catalog and Schema Ownership: When a platform engineer creates a catalog (such as `catalog_A`) and schema (such as `schema_A`), they automatically become the owner of those entities. This ownership gives them control over granting permissions for those entities (i.e., granting the `USE CATALOG` and `USE SCHEMA` privileges to others). However, ownership of the catalog or schema does not automatically extend to ownership or permission of individual tables within that schema.

Table Permissions: For tables within a schema, the permission model is more granular. The table creator (i.e., whoever creates the table) is automatically assigned as the owner of that table. In this case, the platform engineer owns the schema but does not automatically inherit permissions to any table created within the schema unless explicitly granted by the table's owner or unless they grant permissions to themselves.

Why the Engineer Lacks Access: The platform engineer notices that they do not have access to the underlying tables in `schema_A` despite being the owner of the schema. This occurs because the schema's ownership does not cascade to the tables. The engineer must either:

Grant permissions to themselves for the tables in `schema_A`, or

Be granted permissions by whoever created the tables within the schema.

Resolution: As the owner of the schema, the platform engineer can easily grant themselves the required permissions (such as `SELECT`, `INSERT`, etc.) for the tables in the schema. This explains why the owner of a schema may not automatically have access to the tables and must take explicit steps to acquire those permissions.

Reference

Databricks Unity Catalog Documentation: Manage Permissions

[Databricks Permissions and Ownership](<https://docs.databricks.com/security/access-control/workspace-acl.html#permissions>)

NEW QUESTION # 142

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