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Databricks Certified Professional Data Engineer Exam Sample Questions (Q138-Q143):

NEW QUESTION # 138

Two of the most common data locations on Databricks are the DBFS root storage and external object storage mounted with `dbutils.fs.mount()`.

Which of the following statements is correct?

- A. The DBFS root is the most secure location to store data, because mounted storage volumes must have full public read and write permissions.
- B. DBFS is a file system protocol that allows users to interact with files stored in object storage using syntax and guarantees similar to Unix file systems.
- C. By default, both the DBFS root and mounted data sources are only accessible to workspace administrators.

- D. The DBFS root stores files in ephemeral block volumes attached to the driver, while mounted directories will always persist saved data to external storage between sessions.
- E. Neither the DBFS root nor mounted storage can be accessed when using %sh in a Databricks notebook.

Answer: B

Explanation:

DBFS is a file system protocol that allows users to interact with files stored in object storage using syntax and guarantees similar to Unix file systems¹. DBFS is not a physical file system, but a layer over the object storage that provides a unified view of data across different data sources¹. By default, the DBFS root is accessible to all users in the workspace, and the access to mounted data sources depends on the permissions of the storage account or container². Mounted storage volumes do not need to have full public read and write permissions, but they do require a valid connection string or access key to be provided when mounting³. Both the DBFS root and mounted storage can be accessed when using %sh in a Databricks notebook, as long as the cluster has FUSE enabled⁴. The DBFS root does not store files in ephemeral block volumes attached to the driver, but in the object storage associated with the workspace¹. Mounted directories will persist saved data to external storage between sessions, unless they are unmounted or deleted³. Reference: DBFS, Work with files on Azure Databricks, Mounting cloud object storage on Azure Databricks, Access DBFS with FUSE

NEW QUESTION # 139

What is the top-level object in unity catalog?

- A. Workspace
- **B. Metastore**
- C. Table
- D. Catalog
- E. Database

Answer: B

Explanation:

Explanation

Key concepts - Azure Databricks | Microsoft Docs

Diagram Description automatically generated

NEW QUESTION # 140

A data engineer is tasked with building a nightly batch ETL pipeline that processes very large volumes of raw JSON logs from a data lake into Delta tables for reporting. The data arrives in bulk once per day, and the pipeline takes several hours to complete. Cost efficiency is important, but performance and reliability of completing the pipeline are the highest priorities.

Which type of Databricks cluster should the data engineer configure?

- A. An all-purpose cluster always kept running to ensure low-latency job startup times.
- **B. A job cluster configured to autoscale across multiple workers during the pipeline run.**
- C. A high-concurrency cluster designed for interactive SQL workloads.
- D. A lightweight single-node cluster with low worker node count to reduce costs.

Answer: B

Explanation:

Job clusters are optimized for automated production workloads. They start when a job is triggered and terminate automatically once the task completes. This ensures cost control while maintaining performance and reliability for batch ETL. Autoscaling allows Databricks to add or remove workers dynamically based on workload size, ensuring large data volumes are processed efficiently. All-purpose clusters are intended for development or ad-hoc workloads, not scheduled ETL.

Reference Source: Databricks Compute and Job Cluster Configuration Documentation - "Autoscaling and Job Clusters."

NEW QUESTION # 141

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 unit test functions using Files in Repos
- B. Define and import unit test functions from a separate Databricks notebook
- 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.

References:

* Databricks Documentation on Testing: Testing and Validation of Data and Notebooks

NEW QUESTION # 142

Which statement describes Delta Lake optimized writes?

- A. Before a job cluster terminates, OPTIMIZE is executed on all tables modified during the most recent job.
- B. Optimized writes logical partitions instead of directory partitions partition boundaries are only represented in metadata fewer small files are written.
- C. A shuffle occurs prior to writing to try to group data together resulting in fewer files instead of each executor writing multiple files based on directory partitions.
- D. An asynchronous job runs after the write completes to detect if files could be further compacted; yes, an OPTIMIZE job is executed toward a default of 1 GB.

Answer: C

Explanation:

Delta Lake optimized writes involve a shuffle operation before writing out data to the Delta table. The shuffle operation groups data by partition keys, which can lead to a reduction in the number of output files and potentially larger files, instead of multiple smaller files. This approach can significantly reduce the total number of files in the table, improve read performance by reducing the metadata overhead, and optimize the table storage layout, especially for workloads with many small files.

References:

* Databricks documentation on Delta Lake performance tuning: <https://docs.databricks.com/delta/optimizations/auto-optimize.html>

NEW QUESTION # 143

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