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### Databricks Certified Data Engineer Professional Exam Sample Questions (Q200-Q205):

#### NEW QUESTION # 200

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. By default, both the DBFS root and mounted data sources are only accessible to workspace administrators.

- B. The DBFS root is the most secure location to store data, because mounted storage volumes must have full public read and write permissions.
- C. Neither the DBFS root nor mounted storage can be accessed when using %sh in a Databricks notebook.
- 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. 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.

**Answer: E**

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 systems. DBFS is not a physical file system, but a layer over the object storage that provides a unified view of data across different data sources. 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 container. 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 mounting. Both the DBFS root and mounted storage can be accessed when using %sh in a Databricks notebook, as long as the cluster has FUSE enabled. The DBFS root does not store files in ephemeral block volumes attached to the driver, but in the object storage associated with the workspace. Mounted directories will persist saved data to external storage between sessions, unless they are unmounted or deleted.

### NEW QUESTION # 201

A data engineering team is setting up deployment automation. To deploy workspace assets remotely using the Databricks CLI command, they must configure it with proper authentication.

Which authentication approach will provide the highest level of security?

- A. Use a service principal ID and its OAuth client secret.
- B. Use a shared user account and its OAuth client secret.
- C. Use a service principal and its Personal Access Token.
- D. Use a service principal with OAuth token federation.

**Answer: D**

Explanation:

The most secure and enterprise-recommended authentication method for Databricks automation is OAuth token federation with service principals.

This configuration allows service principals (non-human identities) to authenticate using temporary OAuth access tokens from a trusted identity provider (such as Azure AD or AWS IAM federation). These tokens are short-lived and scoped, significantly reducing credential exposure risks.

By contrast, static client secrets (B) or PATs (C) are long-lived and require periodic manual rotation, increasing security vulnerability. Shared user accounts (D) violate least-privilege and auditability principles. Therefore, A provides the strongest, most compliant authentication model for automated CLI and CI/CD workflows.

### NEW QUESTION # 202

An upstream system is emitting change data capture (CDC) logs that are being written to a cloud object storage directory. Each record in the log indicates the change type (insert, update, or delete) and the values for each field after the change. The source table has a primary key identified by the field pk\_id.

For auditing purposes, the data governance team wishes to maintain a full record of all values that have ever been valid in the source system. For analytical purposes, only the most recent value for each record needs to be recorded. The Databricks job to ingest these records occurs once per hour, but each individual record may have changed multiple times over the course of an hour.

Which solution meets these requirements?

- A. Create a separate history table for each pk\_id resolve the current state of the table by running a Get Latest & Actual Certified-Data-Engineer-Professional Exam's Question and Answers from union all filtering the history tables for the most recent state.
- B. Iterate through an ordered set of changes to the table, applying each in turn; rely on Delta Lake's versioning ability to create an audit log.
- C. Ingest all log information into a bronze table; use merge into to insert, update, or delete the most recent entry for each pk\_id into a silver table to recreate the current table state.

- D. Use merge into to insert, update, or delete the most recent entry for each pk\_id into a bronze table, then propagate all changes throughout the system.
- E. Use Delta Lake's change data feed to automatically process CDC data from an external system, propagating all changes to all dependent tables in the Lakehouse.

**Answer: C**

Explanation:

CDF captures changes only from a Delta table and is only forward-looking once enabled. The CDC logs are writing to object storage. So you would need to ingest those and merge into downstream tables.

### NEW QUESTION # 203

A data engineer is building a Lakeflow Declarative Pipelines pipeline to process healthcare claims data. A metadata JSON file defines data quality rules for multiple tables, including:

```
{
  "claims": [
    {"name": "valid_patient_id", "constraint": "patient_id IS NOT NULL"},
    {"name": "non_negative_amount", "constraint": "claim_amount >= 0"}
  ]
}
```

The pipeline must dynamically apply these rules to the claims table without hardcoding the rules.

How should the data engineer achieve this?

- A. Load the JSON metadata, loop through its entries, and apply expectations using `dlt.expect_all`.
- B. Use a SQL CONSTRAINT block referencing the JSON file path.
- C. Reference each expectation with `@dlt.expect` decorators in the table declaration.
- D. Invoke an external API to validate records against the metadata rules.

**Answer: A**

Explanation:

Lakeflow Declarative Pipelines provide the `expect_all` method for programmatically applying multiple data quality expectations at once. The documentation explains that `@dlt.expect_all` accepts a dictionary of expectation names mapped to SQL constraints, allowing rules to be dynamically loaded from metadata such as JSON files. This ensures that pipelines remain maintainable and scalable without needing to hardcode individual `@dlt.expect` decorators. The event logs will track each expectation's pass and fail counts individually, making it auditable.

### NEW QUESTION # 204

Which method can be used to determine the total wall-clock time it took to execute a query?

- A. Open the Query Profiler associated with that query and use the Aggregated task time metric.
- B. In the Spark UI, take the sum of all task durations that ran across all stages for all jobs associated with that query.
- C. Open the Query Profiler associated with that query and use the Total wall-clock duration metric.
- D. In the Spark UI, take the job duration of the longest-running job associated with that query.

**Answer: C**

Explanation:

The Query Profiler in Databricks SQL and notebooks provides a detailed breakdown of query performance metrics. The "Total wall-clock duration" metric directly represents the total elapsed time from query start to completion, including all execution, planning, and waiting stages. In contrast, "Aggregated task time" reflects the cumulative duration across all parallel tasks, which does not equal the total elapsed wall time since tasks often run concurrently. Using job duration from Spark UI can underestimate or overestimate runtime when queries span multiple jobs.

Therefore, the Query Profiler's total wall-clock duration is the officially documented method to determine actual query execution time.

### NEW QUESTION # 205

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