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The simulation of the actual Databricks-Certified-Professional-Data-Engineer test helps you feel the real Databricks-Certified-Professional-Data-Engineer exam scenario, so you don't face anxiety while giving the final examination. You can even access your last test results, which help to realize your mistakes and try to avoid them while taking the Databricks Certified Professional Data Engineer Exam (Databricks-Certified-Professional-Data-Engineer) certification test.

Databricks Certified Professional Data Engineer Exam Sample Questions (Q151-Q156):

NEW QUESTION # 151

Which of the following data workloads will utilize a gold table as its source?

- A. A job that ingests raw data from a streaming source into the Lakehouse
- B. A job that aggregates cleaned data to create standard summary statistics
- C. A job that cleans data by removing malformatted records
- D. A job that queries aggregated data that already feeds into a dashboard
- E. A job that enriches data by parsing its timestamps into a human-readable format

Answer: D

Explanation:

Explanation

The answer is, A job that queries aggregated data that already feeds into a dashboard. The gold layer is used to store aggregated data, which are typically used for dashboards and reporting.

Review the below link for more info,

Medallion Architecture - Databricks

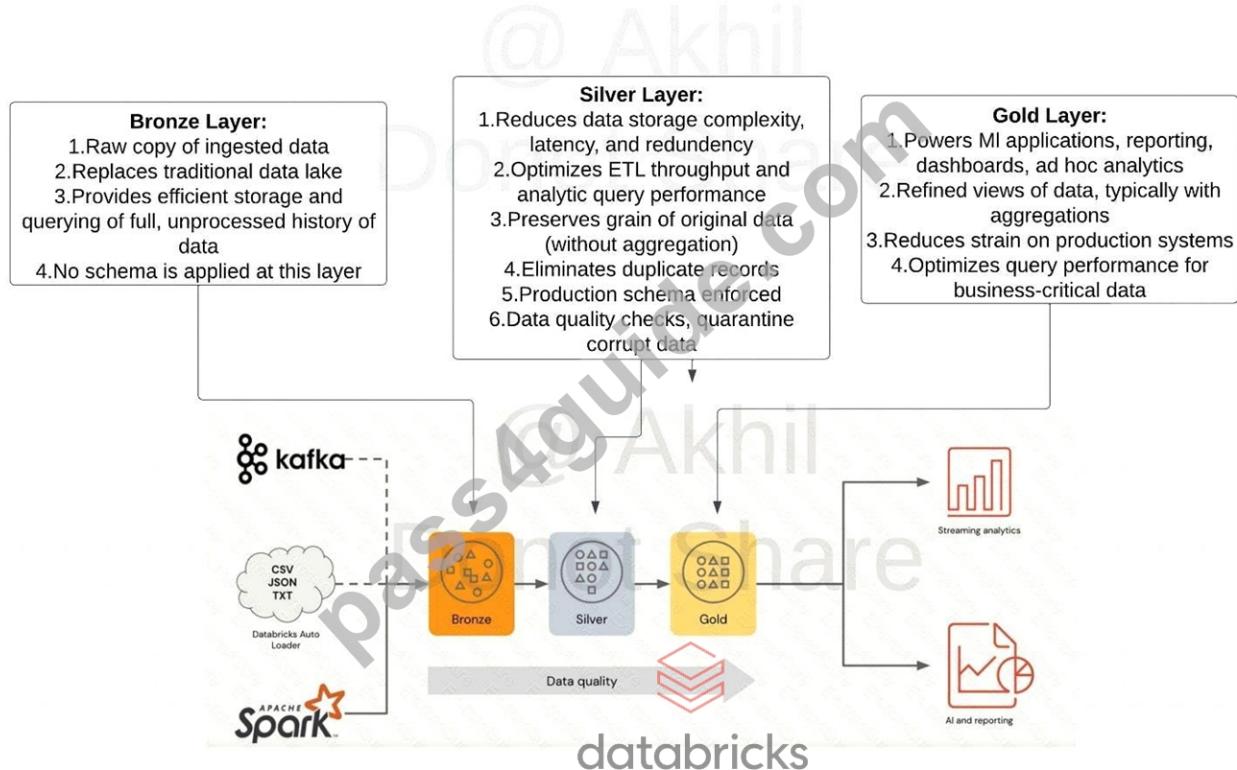
Gold Layer:

1. Powers ML applications, reporting, dashboards, ad hoc analytics
2. Refined views of data, typically with aggregations
3. Reduces strain on production systems
4. Optimizes query performance for business-critical data

Exam focus: Please review the below image and understand the role of each layer(bronze, silver, gold) in medallion architecture, you will see varying questions targeting each layer and its purpose.

Sorry I had to add the watermark some people in Udemy are copying my content.

Purpose of each layer in medallion architecture



NEW QUESTION # 152

A company wants to implement Lakehouse Federation across multiple data sources but is concerned about data consistency and ensuring that all teams access the same authoritative version of their data.

Which statement is applicable for Lakehouse Federations to maintain data consistency?

- A. A separate data synchronization service must be deployed.
- **B. Federation provides read-only access that reflects the current state of source systems.**
- C. Federation creates local copies that must be manually refreshed.
- D. Federation implements change data capture (CDC) from all sources.

Answer: B

Explanation:

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

Lakehouse Federation allows Databricks to query and manage external data sources through a single governance layer, without moving or copying data. The documentation specifies that "Federated queries provide read-only access to data, reflecting the current state of the underlying source system." This ensures consistency across teams since all users access the same source of truth directly from the external system through Unity Catalog. Federation does not perform CDC replication or local caching; it queries live data on demand. Hence, option A accurately represents how Lakehouse Federation maintains consistency across federated sources.

NEW QUESTION # 153

A data engineer created a daily batch ingestion pipeline using a cluster with the latest DBR version to store banking transaction data, and persisted it in a MANAGED DELTA table called prod.gold.all_banking_transactions_daily. The data engineer is constantly receiving complaints from business users who query this table ad hoc through a SQL Serverless Warehouse about poor query performance. Upon analysis, the data engineer identified that these users frequently use high-cardinality columns as filters. The engineer now seeks to implement a data layout optimization technique that is incremental, easy to maintain, and can evolve over time. Which command should the data engineer implement?

- A. Alter the table to use Liquid Clustering and implement a periodic OPTIMIZE command.
- B. Alter the table to use Z-ORDER and implement a periodic OPTIMIZE command.
- C. Alter the table to use Hive-Style Partitions and implement a periodic OPTIMIZE command.
- D. Alter the table to use Hive-Style Partitions + Z-ORDER and implement a periodic OPTIMIZE command.

Answer: A

Explanation:

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

Databricks recommends Liquid Clustering for optimizing data layout in large Delta tables where query filters involve high-cardinality columns. Liquid Clustering automatically manages file organization and supports incremental maintenance without the need to rewrite data when clustering keys evolve. This is a key advantage over static partitioning or Z-ordering, which require costly file rewrites whenever optimization keys change. By combining Liquid Clustering with a periodic OPTIMIZE command, Databricks automatically compacts small files and maintains efficient data skipping performance. As stated in the Delta Lake optimization guide, Liquid Clustering is designed for scalability, minimal maintenance, and adaptability for analytical workloads with evolving query patterns-making B the correct answer.

NEW QUESTION # 154

A junior data engineer has configured a workload that posts the following JSON to the Databricks REST API endpoint2.0/jobs/create.

```
{  
  "name": "Ingest new data",  
  "existing_cluster_id": "6015-954420-peace720",  
  "notebook_task": {  
    "notebook_path": "/Prod/ingest.py"  
  }  
}
```



Assuming that all configurations and referenced resources are available, which statement describes the result of executing this workload three times?

- A. Three new jobs named "Ingest new data" will be defined in the workspace, but no jobs will be executed.
- B. Three new jobs named "Ingest new data" will be defined in the workspace, and they will each run once daily.
- C. The logic defined in the referenced notebook will be executed three times on new clusters with the configurations of the provided cluster ID.
- D. The logic defined in the referenced notebook will be executed three times on the referenced existing all purpose cluster.
- E. One new job named "Ingest new data" will be defined in the workspace, but it will not be executed.

Answer: D

Explanation:

This is the correct answer because the JSON posted to the Databricks REST API endpoint 2.0/jobs/create defines a new job with a name, an existing cluster id, and a notebook task. However, it does not specify any schedule or trigger for the job execution. Therefore, three new jobs with the same name and configuration will be created in the workspace, but none of them will be executed until they are manually triggered or scheduled.

Verified References: [Databricks Certified Data Engineer Professional], under "Monitoring & Logging" section; [Databricks Documentation], under "Jobs API - Create" section.

NEW QUESTION # 155

A user wants to use DLT expectations to validate that a derived table report contains all records from the source, included in the table validation_copy.

The user attempts and fails to accomplish this by adding an expectation to the report table definition.

Which approach would allow using DLT expectations to validate all expected records are present in this table?

- A. Define a view that performs a left outer join on validation_copy and report, and reference this view in DLT expectations for the report table
- B. Define a function that performs a left outer join on validation_copy and report and report, and check against the result in a DLT expectation for the report table
- C. Define a temporary table that performs a left outer join on validation_copy and report, and define an expectation that no report key values are null
- D. Define a SQL UDF that performs a left outer join on two tables, and check if this returns null values for report key values in a DLT expectation for the report table.

Answer: A

Explanation:

To validate that all records from the source are included in the derived table, creating a view that performs a left outer join between the validation_copy table and the report table is effective. The view can highlight any discrepancies, such as null values in the report table's key columns, indicating missing records. This view can then be referenced in DLT (Delta Live Tables) expectations for the report table to ensure data integrity. This approach allows for a comprehensive comparison between the source and the derived table.

Reference:

Databricks Documentation on Delta Live Tables and Expectations: Delta Live Tables Expectations

NEW QUESTION # 156

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