

Databricks-Certified-Professional-Data-Engineer Valid Test Simulator & Databricks-Certified-Professional-Data-Engineer Practice Guide



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Databricks Certified Professional Data Engineer exam is a rigorous and comprehensive assessment of a candidate's skills in designing, building, and maintaining data pipelines on the Databricks platform. Databricks-Certified-Professional-Data-Engineer Exam covers a wide range of topics, including data storage and retrieval, data processing, data transformation, and data visualization. Candidates are tested on their ability to design and implement scalable and reliable data architectures, as well as their proficiency in troubleshooting and optimizing data pipelines.

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Fully Updated Databricks Databricks-Certified-Professional-Data-Engineer

Dumps - Ensure Your Success With Databricks-Certified-Professional-Data-Engineer Exam Questions

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Databricks Certified Professional Data Engineer certification exam is designed for professionals who want to prove their expertise in designing, building, and maintaining data processing systems using Databricks. Databricks is a cloud-based data platform that provides a unified analytics engine for data processing, machine learning, and visualization. Databricks Certified Professional Data Engineer Exam certification exam tests the candidate's knowledge and skills in various areas, including data engineering, data processing, data modeling, and data architecture.

Databricks Certified Professional Data Engineer Exam Sample Questions (Q93-Q98):

NEW QUESTION # 93

What is the main difference between the bronze layer and silver layer in a medallion architecture?

- A. Duplicates are removed in bronze, schema is applied in silver
- **B. Bronze is raw copy of ingested data, silver contains data with production schema and optimized for ELT/ETL throughput**
- C. Silver may contain aggregated data
- D. Bad data is filtered in Bronze, silver is a copy of bronze data

Answer: B

Explanation:

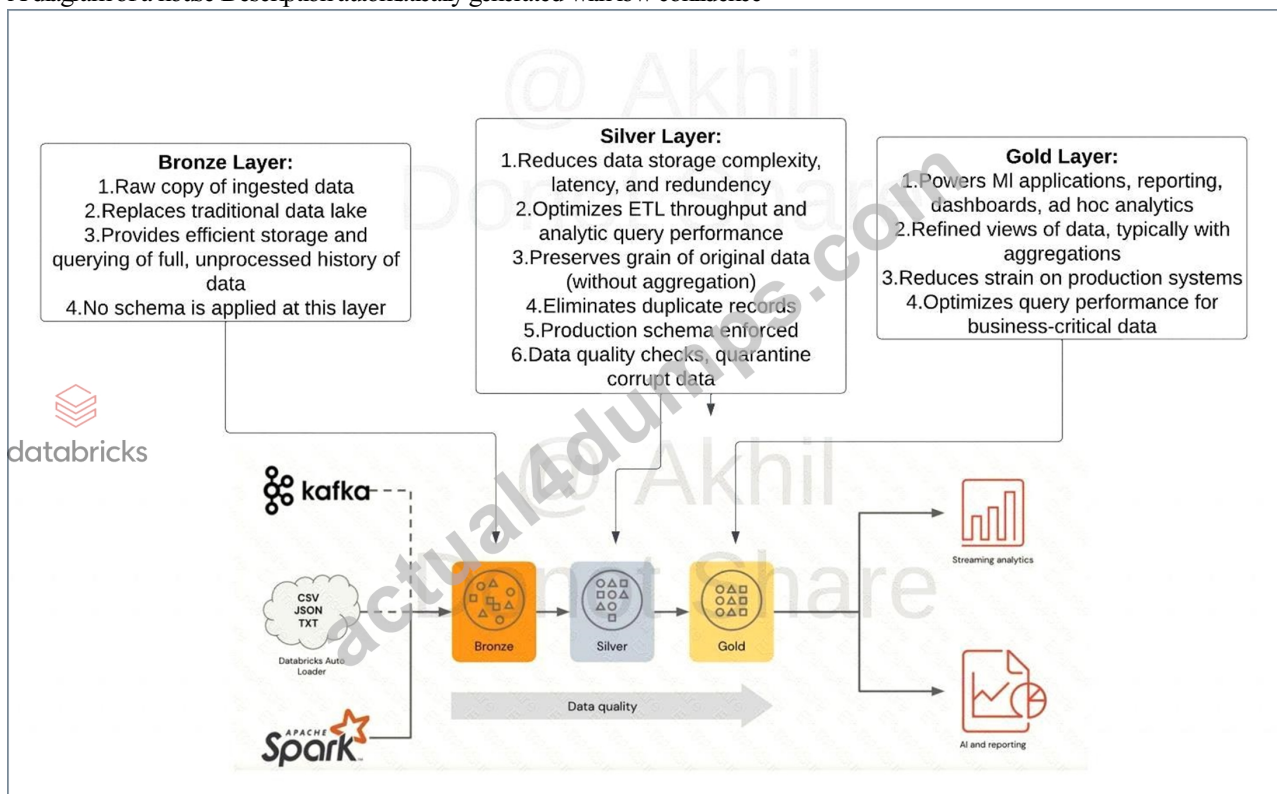
Explanation

Medallion Architecture - Databricks

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 Udemny are copying my content.

A diagram of a house Description automatically generated with low confidence



NEW QUESTION # 94

The data governance team is reviewing code used for deleting records for compliance with GDPR. They note the following logic is used to delete records from the Delta Lake table named `users`.

```
DELETE FROM users
WHERE user_id IN
  (SELECT user_id FROM delete_requests)
```

Assuming that `user_id` is a unique identifying key and that contains all users that have requested deletion, which statement describes whether successfully executing the above logic guarantees that the records to be deleted are no longer accessible and why?

- A. No; files containing deleted records may still be accessible with time travel until a vacuum command is used to remove invalidated data files.
- B. No; the Delta cache may return records from previous versions of the table until the cluster is restarted.
- C. Yes; the Delta cache immediately updates to reflect the latest data files recorded to disk.
- D. No; the Delta Lake delete command only provides ACID guarantees when combined with the `mergeinto` command.
- E. Yes; Delta Lake ACID guarantees provide assurance that the delete command succeeded fully and permanently purged these records.

Answer: A

Explanation:

Explanation

The code uses the `DELETE FROM` command to delete records from the `users` table that match a condition based on a join with another table called `delete_requests`, which contains all users that have requested deletion.

The `DELETE FROM` command deletes records from a Delta Lake table by creating a new version of the table that does not contain the deleted records. However, this does not guarantee that the records to be deleted are no longer accessible, because Delta Lake supports time travel, which allows querying previous versions of the table using a timestamp or version number. Therefore, files containing deleted records may still be accessible with time travel until a vacuum command is used to remove invalidated data files from physical storage.

Verified References: [Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "Delete from a table" section; Databricks Documentation, under "Remove files no longer referenced by a Delta table" section.

NEW QUESTION # 95

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 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. Because Delta Lake uses Parquet for data storage, Dremel encoding information for nesting can be directly referenced by the Delta transaction log.
- B. 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.
- C. Schema inference and evolution on Databricks ensure that inferred types will always accurately match the data types used by downstream systems.
- D. 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.

Answer: D

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. References: Databricks documentation on Delta Lake optimization techniques, including data skipping and statistics collection (<https://docs.databricks.com/delta/optimizations/index.html>).

NEW QUESTION # 96

A data engineer, User A, has promoted a new pipeline to production by using the REST API to programmatically create several jobs. A DevOps engineer, User B, has configured an external orchestration tool to trigger job runs through the REST API. Both users authorized the REST API calls using their personal access tokens.

Which statement describes the contents of the workspace audit logs concerning these events?

- A. Because User A created the jobs, their identity will be associated with both the job creation events and the job run events.
- **B. Because these events are managed separately, User A will have their identity associated with the job creation events and User B will have their identity associated with the job run events.**
- C. Because the REST API was used for job creation and triggering runs, user identity will not be captured in the audit logs.
- D. Because the REST API was used for job creation and triggering runs, a Service Principal will be automatically used to identify these events.
- E. Because User B last configured the jobs, their identity will be associated with both the job creation events and the job run events.

Answer: B

NEW QUESTION # 97

A junior data engineer has configured a workload that posts the following JSON to the Databricks REST API endpoint `2.0/jobs/create`.

```
{
  "name": "Ingest new data",
  "existing_cluster_id": "6045-954420-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. The logic defined in the referenced notebook will be executed three times on the referenced existing all purpose cluster.
- B. The logic defined in the referenced notebook will be executed three times on new clusters with the configurations of the provided cluster ID.
- C. One new job named "Ingest new data" will be defined in the workspace, but it will not be executed.
- **D. Three new jobs named "Ingest new data" will be defined in the workspace, but no jobs will be executed.**
- E. Three new jobs named "Ingest new data" will be defined in the workspace, and they will each run once daily.

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 # 98

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