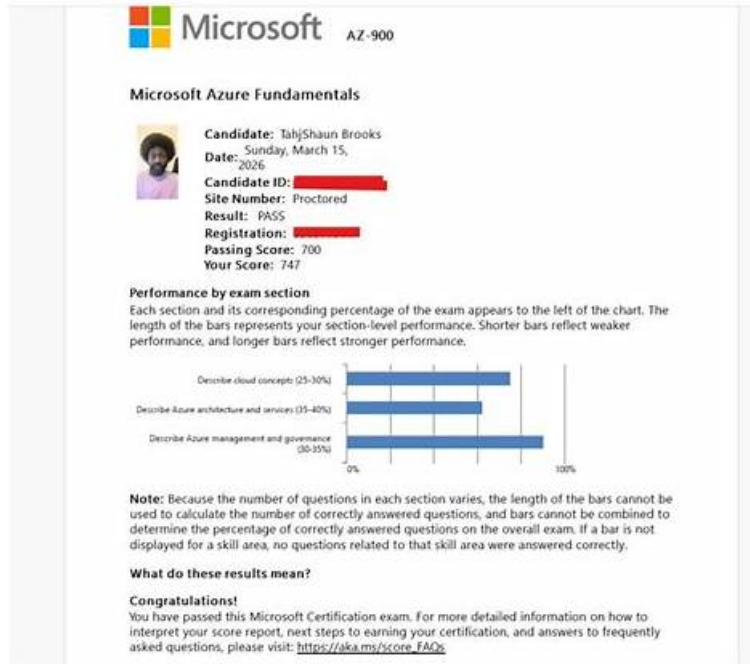


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Microsoft Implementing Data Engineering Solutions Using Azure Databricks Sample Questions (Q64-Q69):

NEW QUESTION # 64

Hotspot Question

You have an Azure Databricks workspace.

You have an Azure key vault named kv-secure that stores a secret named storageKey. The value of storageKey is managed and updated by the cloud security team at your company.

You need to enable a Databricks notebook named Notebook1 to retrieve the value of storageKey securely at runtime. The solution must follow the principle of least privilege and always retrieve the latest value.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Expose storageKey to Databricks by using:

A Databricks access connector
A Databricks-backed secret scope
A Key Vault-backed secret scope

Retrieve storageKey from within Notebook1 by using:

dbutils.secrets.get
dbutils.secrets.list
spark.conf.get



Answer:

Explanation:

Answer Area

Expose storageKey to Databricks by using:

A Databricks access connector
A Databricks-backed secret scope
A Key Vault-backed secret scope

Retrieve storageKey from within Notebook1 by using:

dbutils.secrets.get
dbutils.secrets.list
spark.conf.get

NEW QUESTION # 65

Note: This section contains one or more sets of questions with the same scenario and problem. Each question presents a unique solution to the problem. You must determine whether the solution meets the stated goals. More than one solution in the set might solve the problem. It is also possible that none of the solutions in the set solve the problem.

After you answer a question in this section, you will NOT be able to return. As a result, these questions do not appear on the Review Screen.

You have an Azure Databricks workspace named Workspace1 that contains a lakehouse and is enabled for Unity Catalog.

You have a connection to a Microsoft SQL Server database named DB1.

You need to expose the schemas and tables of DB1 to meet the following requirements:

- The schemas and tables can be queried in Databricks.
- The schemas and tables appear alongside other Unity Catalog objects.
- The data is NOT copied into Databricks-managed storage.

Solution: You create a Lakeflow Connect pipeline and connect it to DB1.

Does this meet the goal?

- A. No
- B. Yes

Answer: A

Explanation:

Correct:

* You create a foreign catalog in Catalog Explorer.

You should create a Foreign Catalog using Lakehouse Federation.

Data Copying: Lakehouse Federation queries data directly in the source SQL Server without moving or copying it.

Seamless Integration: The database schemas and tables appear right inside Unity Catalog alongside your other data objects.

Real-time Access: It provides immediate access to live SQL Server data.

Incorrect:

* You create a Databricks access connector.

* You create a Lakeflow Connect pipeline and connect it to DB1.

Data Copying: Lakeflow Connect is an ingestion tool that physically replicates and copies data into Databricks-managed storage (Delta tables).

Storage Costs: It violates your requirement to keep data out of Databricks storage.

* You create a new native catalog in Unity Catalog.

Note:

To expose the external SQL Server database in Unity Catalog without copying the data, you must use Lakehouse Federation.

Here are the step-by-step actions you need to take:

1. Create a Connection

Create a securable object in Unity Catalog that specifies the path and credentials to access the SQL Server database.

Go to Catalog Explorer or use SQL.

Select External Data > Connections.

Create a connection using the SQL Server connection details (URL, host, port, and database credentials).

*-> 2. Create a Foreign Catalog

Create a specific type of catalog in Unity Catalog that mirrors the external database.

Use the CREATE FOREIGN CATALOG SQL command or the Catalog Explorer UI.

Link this foreign catalog directly to the connection you created in step 1.

3. Query the Data Once the foreign catalog is created, Unity Catalog automatically syncs the schemas and tables from SQL Server.

Reference:

<https://docs.databricks.com/gcp/en/database-objects/>

NEW QUESTION # 66

You have an Azure Databricks workspace named Workspace1 that contains a lakehouse and is enabled for Unity Catalog.

You have a connection to a Microsoft SQL Server database named DB1.

You need to expose the schemas and tables of DB1 to meet the following requirements:

- * The schemas and tables can be queried in Databricks.
- * The schemas and tables appear alongside other Unity Catalog objects.
- * The data is NOT copied into Databricks-managed storage.

Solution: You create a Lakeflow Connect pipeline and connect it to DB1. Does this meet the goal?

- A. No
- B. Yes

Answer: A

Explanation:

The correct answer is B - No.

Lakeflow Connect is an ingestion service that physically copies data from external databases into Delta tables managed by Databricks. It's designed for scenarios where you want a replicated, writable Delta copy of external data - essentially a CDC-based ingestion pipeline.

That's the opposite of what's required here. The requirement states 'the data is NOT copied into Databricks-managed storage.'

Lakeflow Connect would create Delta tables in Databricks and copy DB1's data into them

- a direct violation.

Additionally, Lakeflow Connect creates Databricks-native Delta tables rather than exposing DB1's original schemas and tables as virtual objects. Analysts querying through a Lakeflow Connect pipeline are querying a replicated copy, not the live source.

For zero-copy, live query federation of an external SQL Server into Unity Catalog, Lakehouse Federation (foreign catalog) is the

correct tool.

Reference: <https://learn.microsoft.com/en-us/azure/databricks/ingestion/lakeflow-connect/>

NEW QUESTION # 67

You have an Azure Databricks workspace that is enabled for Unity Catalog.
You have an Apache Spark Structured Streaming job that writes data to a Delta table.
After the cluster restarts, the streaming job reprocesses previously ingested data.
You need to prevent the streaming job from reprocessing the data after the cluster restarts.
What should you do?

- A. Enable change data feed (CDF) for the target table.
- B. Configure a watermark for the streaming query.
- C. Increase the trigger interval of the streaming query.
- D. Configure a checkpoint location for the streaming query.

Answer: D

Explanation:

To prevent your Apache Spark Structured Streaming job from reprocessing previously ingested data after a cluster restart, you must configure a streaming checkpoint directory.

Core Solution

Enable Checkpointing: Define the `checkpointLocation` option in your streaming write configuration.

Track Progress: Spark uses this directory to save the exact offset ranges of processed data.

Automatic Recovery: Upon restart, the engine reads the checkpoint and resumes precisely where it left off.

Implementation Example in python

```
# Configure the streaming write with a checkpoint path
```

```
(df.writeStream
  .format("delta")
  .outputMode("append")
  .option("checkpointLocation",
    "/Volumes/catalog/schema/volume_name/checkpoints/job_name")
  .toTable("catalog.schema.target_table"))
```

Reference:

https://medium.com/@salah.uddin_75300/architecture-of-a-streaming-machine-learning-data-pipeline-042200c8e7ff

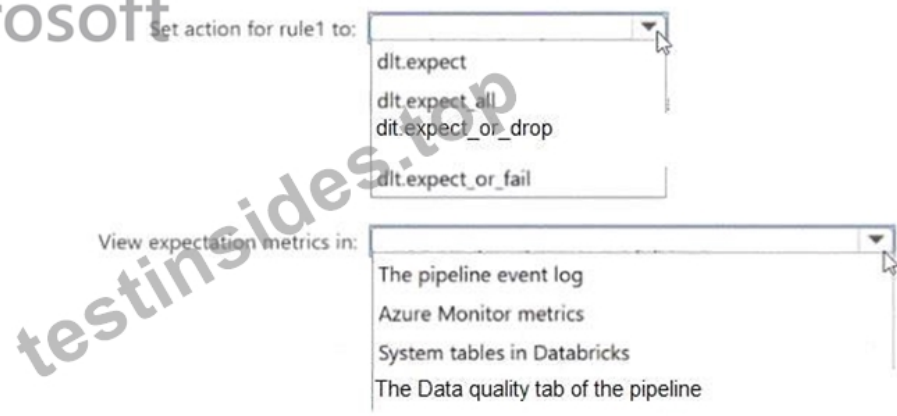
NEW QUESTION # 68

You have an Azure Databricks workspace that is enabled for Unity Catalog.
You have a Lakeflow Spark Declarative Pipelines (SDP) pipeline that writes records to a Delta table named Table1 by using a data quality rule named rule1. You need to meet the following requirements:

- * Records that violate rule1 must NOT be written to Table1, but the pipeline must continue processing valid records.
- * Data engineers must be able to review expectation metrics by using minimal development effort.

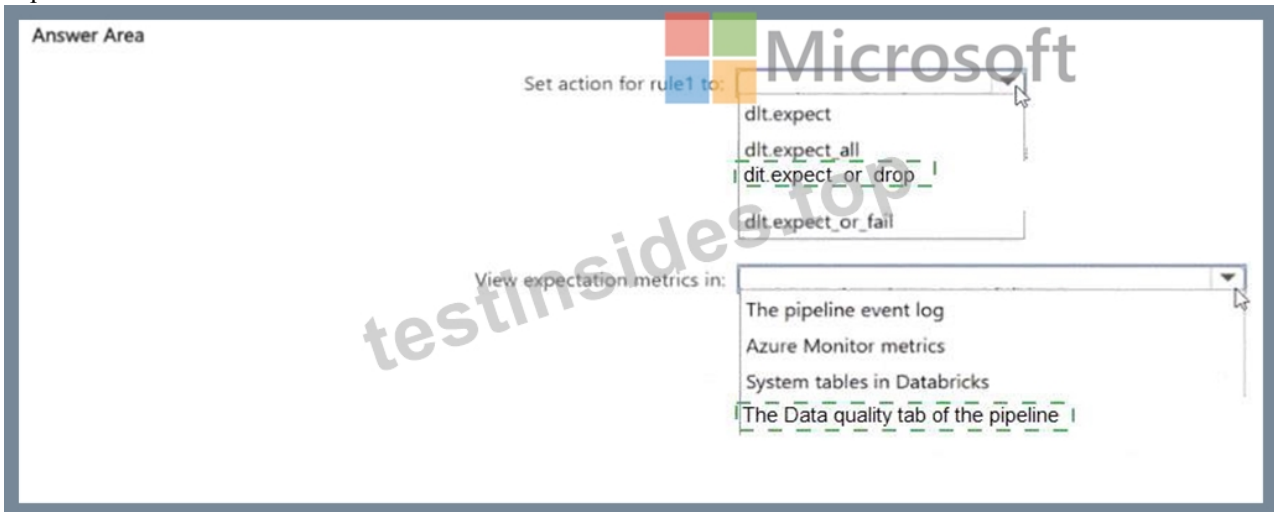
What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Answer:

Explanation:



Explanation:

Two things are needed here:

For the rule enforcement: use `@dlt.expect_or_drop`. This drops any record that violates rule1 before it reaches Table1, while the pipeline continues processing all valid records. The table only ever receives clean data.

For reviewing metrics: the Lakeflow SDP Pipeline UI is the right tool - zero development effort required.

The pipeline graph shows expectation pass/fail counts directly on each table node, and the event log provides a detailed per-batch breakdown of how many records were dropped and why. Data engineers can inspect this at any time without writing additional monitoring queries or connecting external dashboards.

This combination is one of the strongest arguments for SDP over hand-coded Structured Streaming: expectation observability is built in, not bolted on.

Reference: <https://learn.microsoft.com/en-us/azure/databricks/delta-live-tables/expectations>

NEW QUESTION # 69

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