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Databricks Certified Professional Data Engineer Exam is a comprehensive exam that covers a wide range of topics related to data engineering. It includes questions on data ingestion, data transformation, data storage, data processing, and data management using Databricks. Databricks-Certified-Professional-Data-Engineer Exam also covers topics such as cluster management, security, and performance optimization. Databricks-Certified-Professional-Data-Engineer exam is designed to test the candidate's ability to design, implement, and manage data engineering solutions using Databricks.

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Databricks Certified Professional Data Engineer Exam Sample Questions (Q120-Q125):

NEW QUESTION # 120

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 import unit test functions from a separate Databricks notebook
- B. Define units test and functions within the same notebook
- C. Define and unit test functions using Files in Repos
- D. **Run unit tests against non-production data that closely mirrors production**

Answer: D

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.

Reference:

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

NEW QUESTION # 121

A small company based in the United States has recently contracted a consulting firm in India to implement several new data engineering pipelines to power artificial intelligence applications. All the company's data is stored in regional cloud storage in the United States.

The workspace administrator at the company is uncertain about where the Databricks workspace used by the contractors should be deployed.

Assuming that all data governance considerations are accounted for, which statement accurately informs this decision?

- A. Databricks workspaces do not rely on any regional infrastructure; as such, the decision should be made based upon what is most convenient for the workspace administrator.
- B. Databricks leverages user workstations as the driver during interactive development; as such, users should always use a workspace deployed in a region they are physically near.
- C. Databricks runs HDFS on cloud volume storage; as such, cloud virtual machines must be deployed in the region where the data is stored.
- D. Databricks notebooks send all executable code from the user's browser to virtual machines over the open internet; whenever possible, choosing a workspace region near the end users is the most secure.
- E. **Cross-region reads and writes can incur significant costs and latency; whenever possible, compute should be deployed in the same region the data is stored.**

Answer: E

Explanation:

This is the correct answer because it accurately informs this decision. The decision is about where the Databricks workspace used by the contractors should be deployed. The contractors are based in India, while all the company's data is stored in regional cloud storage in the United States. When choosing a region for deploying a Databricks workspace, one of the important factors to consider is the proximity to the data sources and sinks. Cross-region reads and writes can incur significant costs and latency due to network bandwidth and data transfer fees. Therefore, whenever possible, compute should be deployed in the same region the data is stored to optimize performance and reduce costs. Verified References: [Databricks Certified Data Engineer Professional], under "Databricks Workspace" section; Databricks Documentation, under "Choose a region" section.

NEW QUESTION # 122

A platform engineer is creating catalogs and schemas for the development team to use.

The engineer has created an initial catalog, catalog_A, and initial schema, schema_A. The engineer has also granted USE CATALOG, USE SCHEMA, and CREATE TABLE to the development team so that the engineer can begin populating the schema with new tables.

Despite being owner of the catalog and schema, the engineer noticed that they do not have access to the underlying tables in Schema_A.

What explains the engineer's lack of access to the underlying tables?

- A. The owner of the schema does not automatically have permission to tables within the schema, but can grant them to themselves at any point.
- B. The platform engineer needs to execute a REFRESH statement as the table permissions did not automatically update for owners.
- C. Users granted with USE CATALOG can modify the owner's permissions to downstream tables.
- D. Permissions explicitly given by the table creator are the only way the Platform Engineer could access the underlying tables in their schema.

Answer: A

Explanation:

In Databricks, catalogs, schemas (or databases), and tables are managed through the Unity Catalog or Hive Metastore, depending on the environment. Permissions and ownership within these structures are governed by access control lists (ACLs).

* Catalog and Schema Ownership: When a platform engineer creates a catalog (such as catalog_A) and schema (such as schema_A), they automatically become the owner of those entities. This ownership gives them control over granting permissions for those entities (i.e., granting the USE CATALOG and USE SCHEMA privileges to others). However, ownership of the catalog or schema does not automatically extend to ownership or permission of individual tables within that schema.

* Table Permissions: For tables within a schema, the permission model is more granular. The table creator (i.e., whoever creates the table) is automatically assigned as the owner of that table. In this case, the platform engineer owns the schema but does not automatically inherit permissions to any table created within the schema unless explicitly granted by the table's owner or unless they grant permissions to themselves.

* Why the Engineer Lacks Access: The platform engineer notices that they do not have access to the underlying tables in schema_A despite being the owner of the schema. This occurs because the schema's ownership does not cascade to the tables. The engineer must either:

* Grant permissions to themselves for the tables in schema_A, or

* Be granted permissions by whoever created the tables within the schema.

* Resolution: As the owner of the schema, the platform engineer can easily grant themselves the required permissions (such as SELECT, INSERT, etc.) for the tables in the schema. This explains why the owner of a schema may not automatically have access to the tables and must take explicit steps to acquire those permissions.

References

* Databricks Unity Catalog Documentation: Manage Permissions

* [Databricks Permissions and Ownership (<https://docs.databricks.com/security/access-control/workspace-acl.html#permissions>)

NEW QUESTION # 123

At the end of the inventory process, a file gets uploaded to the cloud object storage, you are asked to build a process to ingest data which of the following method can be used to ingest the data incrementally, schema of the file is expected to change overtime ingestion process should be able to handle these changes automatically.

Below is the auto loader to command to load the data, fill in the blanks for successful execution of below code.

```
1.spark.readStream
2..format("cloudfiles")
3..option("_____", "csv")
4..option("_____", 'dbfs:/location/checkpoint')
5..load(data_source)
6..writeStream
7..option("_____", 'dbfs:/location/checkpoint')
8..option("_____", "true")
9..table(table_name))
```

- A. cloudfiles.format, cloudfiles.schemalocation, checkpointlocation, append
- B. format, checkpointlocation, schemalocation, overwrite
- C. cloudfiles.format, checkpointlocation, cloudfiles.schemalocation, overwrite
- D. **cloudfiles.format, cloudfiles.schemalocation, checkpointlocation, mergeSchema**
- E. cloudfiles.format, cloudfiles.schemalocation, checkpointlocation, overwrite

Answer: D

Explanation:

Explanation

The answer is `cloudfiles.format`, `cloudfiles.schemalocation`, `checkpointlocation`, `mergeSchema`.

Here is the end to end syntax of streaming ELT, below link contains complete options Auto Loader options | Databricks on AWS

`1.spark.readStream`

`2..format("cloudfiles")` # Returns a stream data source, reads data as it arrives based on the trigger.

`3..option("cloudfiles.format","csv")` # Format of the incoming files

`4..option("cloudfiles.schemalocation", "dbfs:/location/checkpoint/")` The location to store the inferred schema and subsequent changes

`5..load(data_source)`

`6..writeStream`

`7..option("checkpointlocation","dbfs:/location/checkpoint")` # The location of the stream's checkpoint

`8..option("mergeSchema", "true")` # Infer the schema across multiple files and to merge the schema of each file. Enabled by default for Auto Loader when inferring the schema.

`9..table(table_name))` # target table

NEW QUESTION # 124

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The workspace administrator at the company is uncertain about where the Databricks workspace used by the contractors should be deployed.

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- D. Databricks notebooks send all executable code from the user's browser to virtual machines over the open internet; whenever possible, choosing a workspace region near the end users is the most secure.
- E. **Cross-region reads and writes can incur significant costs and latency; whenever possible, compute should be deployed in the same region the data is stored.**

Answer: E

Explanation:

This is the correct answer because it accurately informs this decision. The decision is about where the Databricks workspace used by the contractors should be deployed. The contractors are based in India, while all the company's data is stored in regional cloud storage in the United States. When choosing a region for deploying a Databricks workspace, one of the important factors to consider is the proximity to the data sources and sinks. Cross-region reads and writes can incur significant costs and latency due to network bandwidth and data transfer fees. Therefore, whenever possible, compute should be deployed in the same region the data is stored to optimize performance and reduce costs. Verified References: [Databricks Certified Data Engineer Professional], under "Databricks Workspace" section; Databricks Documentation, under "Choose a region" section.

NEW QUESTION # 125

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