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

NEW QUESTION # 120

Which of the following data lakehouse features results in improved data quality over a traditional data lake?

- A. A data lakehouse supports ACID-compliant transactions.

- B. A data lakehouse allows the use of SQL queries to examine data.
- C. A data lakehouse stores data in open formats.
- D. A data lakehouse enables machine learning and artificial Intelligence workloads.
- E. A data lakehouse provides storage solutions for structured and unstructured data.

Answer: A

Explanation:

A data lakehouse is a data management architecture that combines the flexibility, cost-efficiency, and scale of data lakes with the data management and ACID transactions of data warehouses, enabling business intelligence (BI) and machine learning (ML) on all data^{1,2}. One of the key features of a data lakehouse is that it supports ACID-compliant transactions, which means that it ensures data integrity, consistency, and isolation across concurrent read and write operations³. This feature results in improved data quality over a traditional data lake, which does not support transactions and may suffer from data corruption, duplication, or inconsistency due to concurrent or streaming data ingestion and processing . Reference: 1: What is a Data Lakehouse? - Databricks 2: What is a Data Lakehouse? Definition, features & benefits. - Qlik 3: ACID Transactions - Databricks : [Data Lake vs Data Warehouse: Key Differences] : [Data Lakehouse: The Future of Data Engineering]

NEW QUESTION # 121

A data engineer and data analyst are working together on a data pipeline. The data engineer is working on the raw, bronze, and silver layers of the pipeline using Python, and the data analyst is working on the gold layer of the pipeline using SQL. The raw source of the pipeline is a streaming input. They now want to migrate their pipeline to use Delta Live Tables. Which of the following changes will need to be made to the pipeline when migrating to Delta Live Tables?

- A. The pipeline will need to be written entirely in Python
- B. The pipeline will need to stop using the medallion-based multi-hop architecture
- C. None of these changes will need to be made
- D. The pipeline will need to use a batch source in place of a streaming source
- E. The pipeline will need to be written entirely in SQL

Answer: C

NEW QUESTION # 122

A data engineer needs to use a Delta table as part of a data pipeline, but they do not know if they have the appropriate permissions. In which of the following locations can the data engineer review their permissions on the table?

- A. Databricks Filesystem
- B. Dashboards
- C. Repos
- D. Jobs
- E. Data Explorer

Answer: E

Explanation:

Data Explorer is a graphical interface that allows you to browse, create, and manage data objects such as databases, tables, and views in your workspace. You can also review and modify the permissions on these data objects using Data Explorer. To access Data Explorer, you can click on the Data icon in the sidebar, or use the %sql magic command in a notebook. You can then select a database and a table, and click on the Permissions tab to view and edit the access control lists (ACLs) for the table. You can also use SQL commands such as SHOW GRANT and GRANT to query and modify the permissions on a Delta table. Reference:

Data Explorer

Access control for Delta tables

SHOW GRANT

[GRANT]

NEW QUESTION # 123

In which of the following scenarios should a data engineer use the MERGE INTO command instead of the INSERT INTO command?

- A. When the source table can be deleted
- B. When the target table is an external table
- C. When the location of the data needs to be changed
- D. When the source is not a Delta table
- E. When the target table cannot contain duplicate records

Answer: E

Explanation:

The MERGE INTO command is used to perform upserts, which are a combination of insertions and updates, based on a source table into a target Delta table¹. The MERGE INTO command can handle scenarios where the target table cannot contain duplicate records, such as when there is a primary key or a unique constraint on the target table. The MERGE INTO command can match the source and target rows based on a merge condition and perform different actions depending on whether the rows are matched or not. For example, the MERGE INTO command can update the existing target rows with the new source values, insert the new source rows that do not exist in the target table, or delete the target rows that do not exist in the source table¹.

The INSERT INTO command is used to append new rows to an existing table or create a new table from a query result². The INSERT INTO command does not perform any updates or deletions on the existing target table rows. The INSERT INTO command can handle scenarios where the location of the data needs to be changed, such as when the data needs to be moved from one table to another, or when the data needs to be partitioned by a certain column². The INSERT INTO command can also handle scenarios where the target table is an external table, such as when the data is stored in an external storage system like Amazon S3 or Azure Blob Storage³. The INSERT INTO command can also handle scenarios where the source table can be deleted, such as when the source table is a temporary table or a view⁴. The INSERT INTO command can also handle scenarios where the source is not a Delta table, such as when the source is a Parquet, CSV, JSON, or Avro file⁵.

References:

- * 1: MERGE INTO | Databricks on AWS
- * 2: [INSERT INTO | Databricks on AWS]
- * 3: [External tables | Databricks on AWS]
- * 4: [Temporary views | Databricks on AWS]
- * 5: [Data sources | Databricks on AWS]

NEW QUESTION # 124

A data engineer wants to create a data entity from a couple of tables. The data entity must be used by other data engineers in other sessions. It also must be saved to a physical location.

Which of the following data entities should the data engineer create?

- A. Table
- B. Database
- C. Temporary view
- D. Function
- E. View

Answer: E

NEW QUESTION # 125

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