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Simulado 1

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You were asked to create a table that can store the below data, orderTime is a timestamp but the finance team when they query this data normally prefer the orderTime in date format, you would like to create a calculated column that can convert the orderTime column timestamp datatype to date and store it, fill in the blank to complete the DDL.

(1 Ponto)

orderid	orderTime	units
1	01-01-2022 09:10:24 AM	100
2	01-01-2022 10:30:30 AM	10


```
1. CREATE TABLE orders (  
2.   orderId int,  
3.   orderTime timestamp,  
4.   orderdate date _____  
5.   units int)
```

- ☐ AS DEFAULT (CAST(orderTime as DATE))
- ☐ GENERATED ALWAYS AS (CAST(orderTime as DATE))
- ☐ GENERATED DEFAULT AS (CAST(orderTime as DATE))

<https://forms.office.com/pages/responsepage.aspx?id=7d1TIT0XyEgEYBuKHhQzVUs3pCO-Yf8ppJgYU7zPvMBUNEKUSkZaWkdfNUU3QzCRFNU...> 1/25

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Databricks Databricks-Certified-Data-Engineer-Associate Exam Syllabus Topics:

Section	Objectives
Data Ingestion and ELT Development	- Handling structured and semi-structured data - ETL patterns and transformations - Data ingestion using Spark SQL and PySpark
Databricks Lakehouse Platform Fundamentals	- Clusters, notebooks, and basic Databricks environment usage - Workspace, architecture, and core platform concepts
Productionizing Data Pipelines	- Databricks Workflows / Jobs orchestration - Scheduling and monitoring jobs - Pipeline deployment and operationalization

Data Governance and Quality	- Data access control and governance - Unity Catalog basics - Data quality concepts and management
Data Processing and Transformations	- User-defined functions (UDFs) - Apache Spark SQL operations (joins, aggregations, filtering) - PySpark DataFrame transformations - Delta Lake fundamentals (tables, transactions, optimization)

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Databricks Certified Data Engineer Associate Exam Sample Questions (Q115-Q120):

NEW QUESTION # 115

An organization has data stored across multiple external systems, including MySQL, Amazon Redshift, and Google BigQuery. The data engineer wants to perform analytics without ingesting data directly into Databricks, while ensuring unified governance and minimizing data duplication.

Which feature of Databricks enables querying these external data sources while maintaining centralized governance?

- A. MLflow
- B. Delta Lake
- C. Lakehouse Federation
- D. Databricks Connect

Answer: C

Explanation:

Lakehouse Federation is the Databricks feature built for querying external systems without moving all data into Databricks . Databricks documentation describes it as the platform for query federation , enabling users to run queries against multiple external data sources while keeping governance centralized through Unity Catalog . Databricks also documents support for external systems such as Amazon Redshift and other databases through connections and foreign catalogs, allowing read-only access to external data while managing permissions in Unity Catalog. This aligns directly with the requirement to minimize duplication and still maintain centralized governance. Databricks Connect is for local development against Databricks compute, not federated querying. MLflow is for machine learning lifecycle management. Delta Lake is a storage format and table layer, not a federation framework. Therefore, when the goal is unified governance across Databricks and external systems like MySQL, Redshift, and BigQuery without first ingesting the data, Lakehouse Federation is the documented answer. Databricks does note that for high-volume production ingestion, managed connectors may sometimes be preferred, but for direct querying without data movement, Lakehouse Federation is the correct feature.

NEW QUESTION # 116

A data architect has determined that a table of the following format is necessary:

employeeId	startDate	avgRating
a1	2009-01-06	5.5
a2	2018-11-21	7.1
...	...	...

Which of the following code blocks uses SQL DDL commands to create an empty Delta table in the above format regardless of whether a table already exists with this name?

- A.

```
CREATE OR REPLACE TABLE table_name WITH COLUMNS (
    employeeId STRING,
    startDate DATE,
    avgRating FLOAT
) USING DELTA
```
- B.

```
CREATE OR REPLACE TABLE table_name AS
SELECT
    employeeId STRING,
    startDate DATE,
    avgRating FLOAT
USING DELTA
```
- C.

```
CREATE TABLE IF NOT EXISTS table_name (
    employeeId STRING,
    startDate DATE,
    avgRating FLOAT
)
```
- D.

```
CREATE TABLE table_name AS
SELECT
    employeeId STRING,
    startDate DATE,
    avgRating FLOAT
```
- E.

```
CREATE OR REPLACE TABLE table_name (
    employeeId STRING,
    startDate DATE,
    avgRating FLOAT
)
```

Answer: E

NEW QUESTION # 117

A data engineer wants to delegate day-to-day permission management for the schema main.marketing to the mkt-admins group,

without making them workspace admins. They should be able to grant and revoke privileges for other users on objects within that schema.

Which approach aligns with Unity Catalog's ownership and privilege model?

- A. Grant USE SCHEMA on main.marketing, and MODIFY on all tables to mkt-admins, which enables the management of grants within the schema.
- B. Grant MANAGE permissions on the metastore to mkt-admins, which allows managing privileges for all schemas and tables globally.
- C. Make mkt-admins a workspace-level admins group, then assign SELECT on main.marketing to allow privilege delegation.
- **D. Transfer ownership of the schema main.marketing to mkt-admins; owners can manage privileges on the schema and its contained objects.**

Answer: D

Explanation:

In Unity Catalog, ownership is the primary mechanism for delegating full administrative control of a securable object. The owner of a schema can grant and revoke privileges on that schema and on all objects contained within it (such as tables and views), without needing to be a workspace admin or metastore admin.

Transferring ownership of main.marketing to the mkt-admins group therefore aligns precisely with the requirement to delegate day-to-day permission management at the schema scope. Granting MANAGE at the metastore level (option B) would be overly permissive, enabling global administration across all schemas and objects, which violates the principle of least privilege. Simply granting USE SCHEMA and MODIFY (option C) does not confer the ability to manage grants for other users. Making the group workspace admins (option D) unnecessarily elevates privileges beyond Unity Catalog's data governance model. Unity Catalog documentation emphasizes using ownership transfer to delegate administrative responsibilities at the appropriate scope while maintaining centralized governance in Databricks.

NEW QUESTION # 118

A dataset has been defined using Delta Live Tables and includes an expectations clause:

CONSTRAINT valid_timestamp EXPECT (timestamp > '2020-01-01') ON VIOLATION DROP ROW What is the expected behavior when a batch of data containing data that violates these constraints is processed?

- **A. Records that violate the expectation are dropped from the target dataset and recorded as invalid in the event log.**
- B. Records that violate the expectation are added to the target dataset and flagged as invalid in a field added to the target dataset.
- C. Records that violate the expectation are dropped from the target dataset and loaded into a quarantine table.
- D. Records that violate the expectation are added to the target dataset and recorded as invalid in the event log.
- E. Records that violate the expectation cause the job to fail.

Answer: A

Explanation:

Delta Live Tables expectations are optional clauses that apply data quality checks on each record passing through a query. An expectation consists of a description, a boolean statement, and an action to take when a record fails the expectation. The ON VIOLATION clause specifies the action to take, which can be one of the following: warn, drop, or fail. The drop action means that invalid records are dropped from the target dataset before data is written to the target. The failure is reported as a metric for the dataset, which can be viewed by querying the Delta Live Tables event log. The event log contains information such as the number of records that violate an expectation, the number of records dropped, and the number of records written to the target dataset.

References:

- * Manage data quality with Delta Live Tables
- * Monitor Delta Live Tables pipelines
- * Delta Live Tables SQL language reference

NEW QUESTION # 119

A data engineer has developed an ETL that produce a Delta managed table with liquid clustering feature activated as output. Several consumers are having issues regarding time delay when reading this table. How could the Data Engineer be sure about the OPTIMIZE command has been executed explicitly?

- **A. Use DESCRIBE HISTORY table to check if exists any OPTIMIZE operation**

- B. Use SHOW TABLES EXTENDED to check the partitions columns used
- C. Check the system table system.storage.predictive_optimization_operations_history
- D. Use DESCRIBE DETAIL table to see the file size and number of files for the table

Answer: A

Explanation:

To confirm whether the OPTIMIZE command has been explicitly executed on a Delta table, the data engineer should run DESCRIBE HISTORY table, which records all table operations, including OPTIMIZE runs.

NEW QUESTION # 120

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