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col_name	data_type	comment
10	Table	test_ext
11	Location	dbfs:/mnt/test/ext
12	Provider	delta
13	Owner	root
14	Type	EXTERNAL
15	Table Properties	[delta.minReaderVersion=1,delta.minWriterVersion=2,external=true]

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The Databricks Databricks-Certified-Professional-Data-Engineer Exam is ideal for data engineers who want to demonstrate their expertise in designing, building, and maintaining big data processing pipelines using Databricks. Databricks Certified Professional Data Engineer Exam certification exam is tailored to the specific roles and responsibilities of a data engineer, and it covers a range of topics, including data ingestion, data transformations, data storage, and data analysis. By passing the exam, candidates can demonstrate their proficiency in using Databricks to solve complex big data challenges.

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Databricks Certified Professional Data Engineer Exam Sample Questions (Q23-Q28):

NEW QUESTION # 23

What type of table is created when you create delta table with below command?

CREATE TABLE transactions USING DELTA LOCATION "DBFS:/mnt/bronze/transactions"

- A. Temp table

- B. Managed table
- C. Managed delta table
- D. **External table**
- E. Delta Lake table

Answer: D

Explanation:

Explanation

Anytime a table is created using the LOCATION keyword it is considered an external table, below is the current syntax.

Syntax

CREATE TABLE table_name (column column_data_type...) USING format LOCATION "dbfs://" format -> DELTA, JSON, CSV, PARQUET, TEXT I created the table command based on the above question, you can see it created an external table,

```
%sql
CREATE TABLE transactions(transactionId int, transactionDate timestamp,unitsSold int)
USING DELTA LOCATION "dbfs:/mnt/bronze/transactions"

▶ [sql] _sqldf: pyspark.sql.DataFrame
OK

Command took 1.78 seconds -- by akhil
at 10/10/2022, 5:02:40 PM on Akhil Vangala's Cluster
2

%sql
DESCRIBE EXTENDED transactions

▶ [sql] _sqldf: pyspark.sql.DataFrame = [col_name: string, data_type: string ... 1 more field]
Table Data Profile

+---+---+---+---+
| id | col_name | data_type | comment |
+---+---+---+---+
| 10 | Database | default | |
| 11 | Table | transactions |
| 12 | Location | dbfs:/mnt/bronze/transactions |
| 13 | Provider | delta |
| 14 | Owner | root |
| 15 | Type | EXTERNAL |  |
| 16 | Table Properties | [delta.minReaderVersion=1,delta.minWriterVersion=2,external=true] |
+---+---+---+---+
databricks
```

NEW QUESTION # 24

The data governance team has instituted a requirement that all tables containing Personal Identifiable Information (PII) must be clearly annotated. This includes adding column comments, table comments, and setting the custom table property "contains_pii" = true.

The following SQL DDL statement is executed to create a new table:

```
CREATE TABLE dev.pii_test
(id INT, name STRING COMMENT "PII")
COMMENT "Contains PII"
TBLPROPERTIES ('contains_pii' = True)
```

Which command allows manual confirmation that these three requirements have been met?

- A. **DESCRIBE EXTENDED dev.pii test**
- B. DESCRIBE HISTORY dev.pii test
- C. DESCRIBE DETAIL dev.pii test
- D. SHOW TABLES dev
- E. SHOW TBLPROPERTIES dev.pii test

Answer: A

Explanation:

Explanation

This is the correct answer because it allows manual confirmation that these three requirements have been met.

The requirements are that all tables containing Personal Identifiable Information (PII) must be clearly annotated, which includes adding column comments, table comments, and setting the custom table property

"contains_pii" = true. The DESCRIBE EXTENDED command is used to display detailed information about a table, such as its schema, location, properties, and comments. By using this command on the dev.pii_test table, one can verify that the table has been created with the correct column comments, table comment, and custom table property as specified in the SQL DDL statement.

Verified References: [Databricks Certified Data Engineer Professional], under "Lakehouse" section; Databricks Documentation, under "DESCRIBE EXTENDED" section.

NEW QUESTION # 25

Once a cluster is deleted, below additional actions need to be performed by the administrator

- A. No action needs to be performed. All resources are automatically removed.
- B. Remove networking but Virtual machines and storage disks are automatically dropped
- C. Remove logs
- D. Drop storage disks but Virtual machines and networking are automatically dropped
- E. Remove virtual machines but storage and networking are automatically dropped

Answer: A

Explanation:

Explanation

What is Delta?

Delta lake is

- * Open source
- * Builds up on standard data format
- * Optimized for cloud object storage
- * Built for scalable metadata handling

Delta lake is not

- * Proprietary technology
- * Storage format
- * Storage medium
- * Database service or data warehouse

NEW QUESTION # 26

What is a method of installing a Python package scoped at the notebook level to all nodes in the currently active cluster?

- A. Install libraries from PyPi using the cluster UI
- B. Use &Pip install in a notebook cell
- C. Use &sh install in a notebook cell
- D. Run source env/bin/activate in a notebook setup script

Answer: B

Explanation:

In Databricks notebooks, you can use the %pip install command in a notebook cell to install a Python package. This will install the package on all nodes in the currently active cluster at the notebook level. It is a feature provided by Databricks to facilitate the installation of Python libraries for the notebook environment specifically.

NEW QUESTION # 27

A data engineer is designing a pipeline in Databricks that processes records from a Kafka stream where late-arriving data is common.

Which approach should the data engineer use?

- A. Implement a custom solution using Databricks Jobs to periodically reprocess all historical data.

- B. Use an Auto CDC pipeline with batch tables to simplify late data handling.
- C. Use a watermark to specify the allowed lateness to accommodate records that arrive after their expected window, ensuring correct aggregation and state management.
- D. Use batch processing and overwrite the entire output table each time to ensure late data is incorporated correctly.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of Databricks Data Engineer Documents:

In Structured Streaming, event-time watermarks control how long the engine waits for late-arriving data before finalizing aggregations. By setting an appropriate watermark, Databricks can handle late data gracefully - incorporating records that arrive within the defined window while discarding excessively delayed events.

This approach ensures accurate aggregations, minimizes state size, and prevents memory leaks.

Manual reprocessing (A) or overwriting entire datasets (B) is inefficient and costly, while Auto CDC (C) is used for change tracking in Delta tables, not for streaming event lateness.

Thus, using watermarking is the recommended and official approach for managing late data in streaming pipelines.

NEW QUESTION # 28

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