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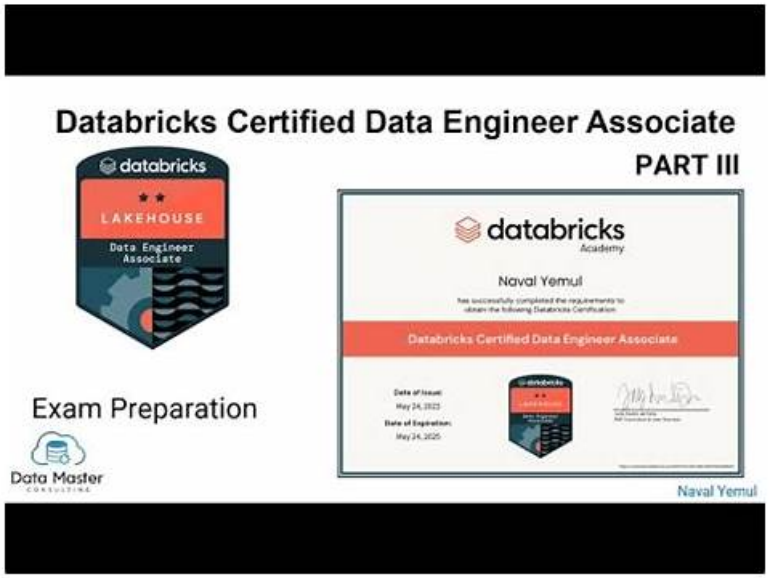

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Databricks Certified Professional Data Engineer Exam Sample Questions (Q126-Q131):

NEW QUESTION # 126
A data engineer is optimizing a managed Delta table that suffers from data skew and frequently changing query filter columns . The engineer wants to avoid costly data rewrites when query patterns evolve. The table size is under 1 TB.
How should the data engineer meet this requirement?

- A. Use Hive-style partitioning , as it provides efficient data skipping and is easy to change partition columns at any time.

- B. Enable liquid clustering , as it efficiently handles data skew, allows clustering keys to be changed without rewriting existing data, and adapts to evolving query patterns.
- C. Apply Z-ordering , since it allows flexible reorganization of data layout without rewriting existing files and adapts easily to new filter columns.
- D. Combine partitioning and Z-ordering to maximize flexibility and minimize maintenance as query patterns change.

Answer: B

Explanation:
The Databricks documentation describes Liquid Clustering as the recommended data layout optimization for evolving workloads. Unlike traditional partitioning or Z-ordering, Liquid Clustering dynamically maintains data organization without rewriting existing files when clustering keys change. It handles data skew automatically and supports flexible re-clustering based on query patterns. Partitioning and Z-ordering require full data rewrites whenever key structures change, making them expensive for tables with frequently evolving access patterns. For tables under a few terabytes, Liquid Clustering offers the best balance between scalability, adaptability, and maintenance efficiency. Thus, option C aligns with Databricks' best practice for modern adaptive layout optimization.

NEW QUESTION # 127
A junior data engineer is working to implement logic for a Lakehouse table namedsilver_device_recordings.
The source data contains 100 unique fields in a highly nested JSON structure.
Thesilver_device_recordingstable will be used downstream to power several production monitoring dashboards and a production model. At present, 45 of the 100 fields are being used in at least one of these applications.
The data engineer is trying to determine the best approach for dealing with schema declaration given the highly-nested structure of the data and the numerous fields.
Which of the following accurately presents information about Delta Lake and Databricks that may impact their decision-making process?

- A. Human labor in writingcode is the largest cost associated with data engineering workloads; as such, automatingtable declaration logic should be a priority in all migration workloads.
- B. Schema inference and evolution on .Databricks ensure that inferred types will always accurately match the data types used by downstream systems.
- C. Because Delta Lake uses Parquet for data storage, data types can be easily evolved by just modifying file footer information in place.
- D. The Tungsten encodingused by Databricksis optimized for storing stringdata; newly-added nativesupport for querying JSON strings means that stringtypes are always most efficient.
- E. Because Databricks will infer schema using types that allow all observed data to be processed, setting types manually provides greater assurance of data quality enforcement.

Answer: E

Explanation:
Explanation
This is the correct answer because it accurately presents information about Delta Lake and Databricks that may impact the decision-making process of a junior data engineer who is trying to determine the best approach for dealing with schema declaration given the highly-nested structure of the data and the numerous fields.
Delta Lake and Databricks support schema inference and evolution, which means that they can automatically infer the schema of a table from the source data and allow adding new columns or changing column types without affecting existing queries or pipelines. However, schema inference and evolution may not always be desirable or reliable, especially when dealing with complex or nested data structures or when enforcing data quality and consistency across different systems. Therefore, setting types manually can provide greater assurance of data quality enforcement and avoid potential errors or conflicts due to incompatible or unexpected data types. Verified References: [Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "Schema inference and partition of streaming DataFrames/Datasets" section.

NEW QUESTION # 128
A workspace admin has created a new catalog called finance_data and wants to delegate permission management to a finance team lead without giving them full admin rights.
Which privilege should be granted to the finance team lead?

- A. ALL PRIVILEGES on the finance_data catalog.

- B. GRANT OPTION privilege on the finance_data catalog.
- C. MANAGE privilege on the finance_data catalog.
- D. Make the finance team lead a metastore admin.

Answer: C

Explanation:
The MANAGE privilege in Unity Catalog provides the ability to grant and revoke privileges on the specified object (in this case, a catalog) without giving full administrative access or ownership.
This is the Databricks-recommended approach for delegating governance responsibilities while preserving the principle of least privilege .
By contrast, the ALL PRIVILEGES option grants excessive access (including read and write permissions), and metastore admin status provides global control over all catalogs-far exceeding the requirement. The MANAGE privilege enables the finance team lead to control access to objects within finance_data responsibly while limiting overall administrative exposure.

NEW QUESTION # 129
The data governance team has instituted a requirement that all tables containing Personal Identifiable Information (PH) 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:
Which command allows manual confirmation that these three requirements have been met?

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

Answer: C

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 # 130
Which approach demonstrates a modular and testable way to use DataFrame.transform for ETL code in PySpark?

- A. def transform_data(input_df):
  # transformation logic here
  return output_df
  test_input = spark.createDataFrame([(1, "a")], ["id", "value"])
  assertDataFrameEqual(transform_data(test_input), expected)
- B. class Pipeline:
  def transform(self, df):
  return df.withColumn("value_upper", upper(col("value")))
  pipeline = Pipeline()
  assertDataFrameEqual(pipeline.transform(test_input), expected)
- C. def upper_value(df):
  return df.withColumn("value_upper", upper(col("value")))
  def filter_positive(df):
  return df.filter(df["id"] > 0)
  pipeline_df = df.transform(upper_value).transform(filter_positive)

- D. def upper_transform(df):
  return df.withColumn("value_upper", upper(col("value")))
  actual = test_input.transform(upper_transform)
  assertDataFrameEqual(actual, expected)

Answer: C

Explanation:
Databricks and Apache Spark recommend building modular and reusable ETL transformations by leveraging the DataFrame.transform() API. This method allows you to chain multiple transformation functions in a clean and testable way.
Option A: Encapsulating the logic in a class (Pipeline) works, but it reduces modularity and flexibility. It does not show the true intended use of DataFrame.transform() which is chaining functional transformations.
Option B: This is the correct approach. It defines small, reusable functions (upper_value, filter_positive) that each take a DataFrame and return a transformed DataFrame. By chaining them with df.transform(func), you can compose ETL pipelines in a clear and declarative manner. This enables unit testing of individual functions and makes the ETL pipeline modular, testable, and production-ready.
Option C: This shows a single transformation wrapped in a function and tested, but it lacks pipeline composition - it is not demonstrating modular chaining across multiple transformations.
Option D: This simply defines a transformation function with hardcoded logic. It does not leverage DataFrame.transform() nor demonstrate modularity through composition.
Therefore, Option B is the best demonstration of how to use DataFrame.transform() in PySpark ETL pipelines.
Databricks documentation explicitly highlights that DataFrame.transform() allows developers to "chain together reusable functions in a readable and modular way, improving testability and maintainability of ETL code." This makes B the correct and officially supported pattern.

NEW QUESTION # 131
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