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Databricks Certified Professional Data Engineer Exam Sample Questions (Q151-Q156):

NEW QUESTION # 151

A data governance team at a large enterprise is improving data discoverability across its organization. The team has hundreds of tables in their Databricks Lakehouse with thousands of columns that lack proper documentation. Many of these tables were created by different teams over several years, with missing context about column meanings and business logic. The data governance team needs to quickly generate comprehensive column descriptions for all existing tables to meet compliance requirements and improve data literacy across the organization. They want to leverage modern capabilities to automatically generate meaningful descriptions rather than manually documenting each column, which would take months to complete.

Which approach should the team use in Databricks to automatically generate column comments and descriptions for existing tables?

- A. Use the DESCRIBE TABLE command to extract existing schema information and manually write descriptions based on

column names and data types.

- B. Write custom PySpark code using `df.describe()` and `df.schema` to programmatically generate basic statistical descriptions for each column.
- C. Use Delta Lake's `DESCRIBE HISTORY` command to analyze table evolution and infer column purposes from historical changes.
- D. Navigate to the table in Databricks Catalog Explorer, select the table schema view, and use the AI Generate option which leverages artificial intelligence to automatically create meaningful column descriptions based on column names, data types, sample values, and data patterns.

Answer: D

Explanation:

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

Databricks Catalog Explorer provides a feature called AI Generate that automatically produces intelligent comments for columns.

This feature uses metadata such as column names, types, patterns, and sampled values to generate human-readable documentation.

According to the documentation, this is the recommended method to rapidly enrich schema metadata and improve data discoverability, especially at enterprise scale. Unlike `DESCRIBE HISTORY` or `DESCRIBE TABLE`, which only surface technical schema details, AI Generate directly produces business-oriented descriptions. PySpark statistical functions (`df.describe`) only return numeric statistics and cannot generate descriptive metadata. Thus, AI Generate in Catalog Explorer is the correct approach.

NEW QUESTION # 152

A data engineer has configured a Structured Streaming job to read from a table, manipulate the data, and then perform a streaming write into a new table. The code block used by the data engineer is below:

1. `(spark.table("sales"))`
2. `.withColumn("avg_price", col("sales") / col("units"))`
3. `.writeStream`
4. `.option("checkpointLocation", checkpointPath)`
5. `.outputMode("complete")`
6. _____
7. `.table("new_sales")`
- 8.)

If the data engineer only wants the query to execute a single micro-batch to process all of the available data, which of the following lines of code should the data engineer use to fill in the blank?

- A. `.trigger(processingTime="once")`
- B. `.processingTime("once")`
- C. `.trigger(once=True)`
- D. `.trigger(continuous="once")`
- E. `.processingTime(1)`

Answer: C

NEW QUESTION # 153

The following code has been migrated to a Databricks notebook from a legacy workload:

The code executes successfully and provides the logically correct results, however, it takes over 20 minutes to extract and load around 1 GB of data.

Which statement is a possible explanation for this behavior?

- A. `%sh` does not distribute file moving operations; the final line of code should be updated to use `%fs` instead.
- B. `%sh` triggers a cluster restart to collect and install Git. Most of the latency is related to cluster startup time.
- C. Instead of cloning, the code should use `%sh pip install` so that the Python code can get executed in parallel across all nodes in a cluster.
- D. `%sh` executes shell code on the driver node. The code does not take advantage of the worker nodes or Databricks optimized Spark.
- E. Python will always execute slower than Scala on Databricks. The `run.py` script should be refactored to Scala.

Answer: D

Explanation:

<https://www.databricks.com/blog/2020/08/31/introducing-the-databricks-web-terminal.html> The code is using %sh to execute shell code on the driver node. This means that the code is not taking advantage of the worker nodes or Databricks optimized Spark. This is why the code is taking longer to execute. A better approach would be to use Databricks libraries and APIs to read and write data from Git and DBFS, and to leverage the parallelism and performance of Spark. For example, you can use the Databricks Connect feature to run your Python code on a remote Databricks cluster, or you can use the Spark Git Connector to read data from Git repositories as Spark DataFrames.

NEW QUESTION # 154

In order to prevent accidental commits to production data, a senior data engineer has instituted a policy that all development work will reference clones of Delta Lake tables. After testing both deep and shallow clone, development tables are created using shallow clone.

A few weeks after initial table creation, the cloned versions of several tables implemented as Type 1 Slowly Changing Dimension (SCD) stop working. The transaction logs for the source tables show that vacuum was run the day before.

Why are the cloned tables no longer working?

- A. Running vacuum automatically invalidates any shallow clones of a table; deep clone should always be used when a cloned table will be repeatedly queried.
- **B. The metadata created by the clone operation is referencing data files that were purged as invalid by the vacuum command**
- C. Because Type 1 changes overwrite existing records, Delta Lake cannot guarantee data consistency for cloned tables.
- D. The data files compacted by vacuum are not tracked by the cloned metadata; running refresh on the cloned table will pull in recent changes.

Answer: B

Explanation:

In Delta Lake, a shallow clone creates a new table by copying the metadata of the source table without duplicating the data files.

When the vacuum command is run on the source table, it removes old data files that are no longer needed to maintain the transactional log's integrity, potentially including files referenced by the shallow clone's metadata. If these files are purged, the shallow cloned tables will reference non-existent data files, causing them to stop working properly. This highlights the dependency of shallow clones on the source table's data files and the impact of data management operations like vacuum on these clones.

Reference: Databricks documentation on Delta Lake, particularly the sections on cloning tables (shallow and deep cloning) and data retention with the vacuum command (<https://docs.databricks.com/delta/index.html>).

NEW QUESTION # 155

What is the purpose of a silver layer in Multi hop architecture?

- A. Refined views with aggregated data
- B. Efficient storage and querying of full and unprocessed history of data
- C. Replaces a traditional data lake
- D. Optimized query performance for business-critical data
- **E. A schema is enforced, with data quality checks.**

Answer: E

Explanation:

Explanation

The answer is, A schema is enforced, with data quality checks.

Medallion Architecture - Databricks

Silver Layer:

- 1.Reduces data storage complexity, latency, and redundancy
- 2.Optimizes ETL throughput and analytic query performance
- 3.Preserves grain of original data (without aggregation)
- 4.Eliminates duplicate records
- 5.production schema enforced
- 6.Data quality checks, quarantine corrupt data

Exam focus: Please review the below image and understand the role of each layer(bronze, silver, gold) in medallion architecture, you will see varying questions targeting each layer and its purpose.

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□

NEW QUESTION # 156

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