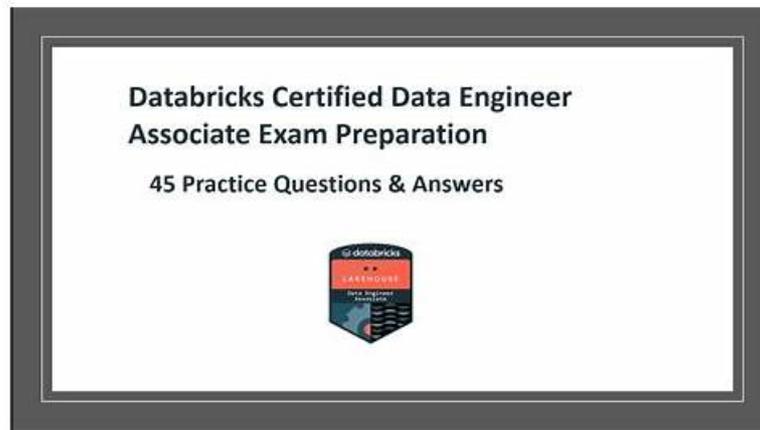


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Databricks Certified Data Engineer Associate Exam Sample Questions (Q46-Q51):

NEW QUESTION # 46

Which query is performing a streaming hop from raw data to a Bronze table?

- A.

```
(spark.read.load(rawSalesLocation)
.write .mode("append")
.table("newSales")
)
```
- B.

```
(spark.table("sales")
.withColumn("avgPrice", col("sales")/col("units"))
.writeStream
.option("checkpointLocation", checkpointPath)
.outputMode("append")
.table("newSales")
)
```
- C.

```
(spark.table("sales")
.groupBy("store")
.agg(sum("sales"))
.writeStream
.option("checkpointLocation", checkpointPath)
.outputMode("complete")
.table("newSales")
)
```
- D.

```
(spark.readStream.load(rawSalesLocation)
.writeStream
.option("checkpointLocation", checkpointPath)
.outputMode("append")
.table("newSales")
)
```

Answer: D

Explanation:

The query performing a streaming hop from raw data to a Bronze table is identified by using the Spark streaming read capability and then writing to a Bronze table. Let's analyze the options:

- * Option A: Utilizes .writeStream but performs a complete aggregation which is more characteristic of a roll-up into a summarized table rather than a hop into a Bronze table.
- * Option B: Also uses .writeStream but calculates an average, which again does not typically represent the raw to Bronze transformation, which usually involves minimal transformations.
- * Option C: This uses a basic .write with .mode("append") which is not a streaming operation, and hence not suitable for real-time streaming data transformation to a Bronze table.
- * Option D: It employs spark.readStream.load() to ingest raw data as a stream and then writes it out with .writeStream, which is a typical pattern for streaming data into a Bronze table where raw data is captured in real-time and minimal transformation is applied. This approach aligns with the concept of a Bronze table in a modern data architecture, where raw data is ingested continuously and stored in a more accessible format.

References: Databricks documentation on Structured Streaming: Structured Streaming in Databricks

NEW QUESTION # 47

A data engineer has realized that they made a mistake when making a daily update to a table. They need to use Delta time travel to restore the table to a version that is 3 days old. However, when the data engineer attempts to time travel to the older version, they are unable to restore the data because the data files have been deleted.

Which of the following explains why the data files are no longer present?

- A. The DELETE HISTORY command was run on the table
- B. The HISTORY command was run on the table
- C. The TIME TRAVEL command was run on the table
- D. The VACUUM command was run on the table
- E. The OPTIMIZE command was run on the table

Answer: D

Explanation:

The VACUUM command is used to remove files that are no longer referenced by a Delta table and are older than the retention

threshold1. The default retention period is 7 days2, but it can be changed by setting the `delta.logRetentionDuration` and `delta.deletedFileRetentionDuration` configurations3. If the `VACUUM` command was run on the table with a retention period shorter than 3 days, then the data files that were needed to restore the table to a 3-day-old version would have been deleted. The other commands do not delete data files from the table. The `TIME TRAVEL` command is used to query a historical version of the table4. The `DELETE HISTORY` command is not a valid command in Delta Lake. The `OPTIMIZE` command is used to improve the performance of the table by compacting small files into larger ones5. The `HISTORY` command is used to retrieve information about the operations performed on the table. References: 1: `VACUUM` | Databricks on AWS 2: Work with Delta Lake table history | Databricks on AWS 3: [Delta Lake configuration | Databricks on AWS] 4: Work with Delta Lake table history - Azure Databricks 5: [OPTIMIZE | Databricks on AWS] : [HISTORY | Databricks on AWS]

NEW QUESTION # 48

Which of the following describes a scenario in which a data engineer will want to use a single-node cluster?

- A. When they are manually running reports with a large amount of data
- B. When they are running automated reports to be refreshed as quickly as possible
- C. When they are working interactively with a small amount of data
- D. When they are concerned about the ability to automatically scale with larger data
- E. When they are working with SQL within Databricks SQL

Answer: C

Explanation:

Explanation

A Single Node cluster is a cluster consisting of an Apache Spark driver and no Spark workers. A Single Node cluster supports Spark jobs and all Spark data sources, including Delta Lake. A Standard cluster requires a minimum of one Spark worker to run Spark jobs.

NEW QUESTION # 49

Which of the following benefits of using the Databricks Lakehouse Platform is provided by Delta Lake?

- A. The ability to manipulate the same data using a variety of languages
- B. The ability to support batch and streaming workloads
- C. The ability to collaborate in real time on a single notebook
- D. The ability to set up alerts for query failures
- E. The ability to distribute complex data operations

Answer: B

Explanation:

Delta Lake is the optimized storage layer that provides the foundation for storing data and tables in the Databricks lakehouse. Delta Lake is fully compatible with Apache Spark APIs, and was developed for tight integration with Structured Streaming, allowing you to easily use a single copy of data for both batch and streaming operations and providing incremental processing at scale1. Delta Lake supports upserts using the merge operation, which enables you to efficiently update existing data or insert new data into your Delta tables2. Delta Lake also provides time travel capabilities, which allow you to query previous versions of your data or roll back to a specific point in time3. Reference: 1: What is Delta Lake? | Databricks on AWS 2: Upsert into a table using merge | Databricks on AWS 3: [Query an older snapshot of a table (time travel) | Databricks on AWS] Learn more

NEW QUESTION # 50

A global retail company sells products across multiple categories (e.g. Electronics, Clothing) and regions (e.g. North, South, East, West). The sales team has provided the data engineer with a PySpark dataframe named `sales_df` as below and the team wants the data engineer to analyze the sales data to help them make strategic decisions.

product_id	category	sales_amount	region
1	Electronics	100	North
2	Clothing	200	South
3	Electronics	150	North
4	Clothing	300	South
5	Electronics	250	East
6	Clothing	400	West

- A. `Category_sales = sales_df.sum("sales_amount").groupby("category").alias("total_sales_amount")`
- B. `Category_sales = sales_df.agg(sum("sales_amount"), by="category").alias("total_sales_amount")`
- C. `Category_sales = sales_df.groupby("category").agg(sum("sales_amount")).alias("total_sales_amount")`
- D. `Category_sales = sales_df.groupby("region").agg(sum("sales_amount")).alias("total_sales_amount")`

Answer: C

NEW QUESTION # 51

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