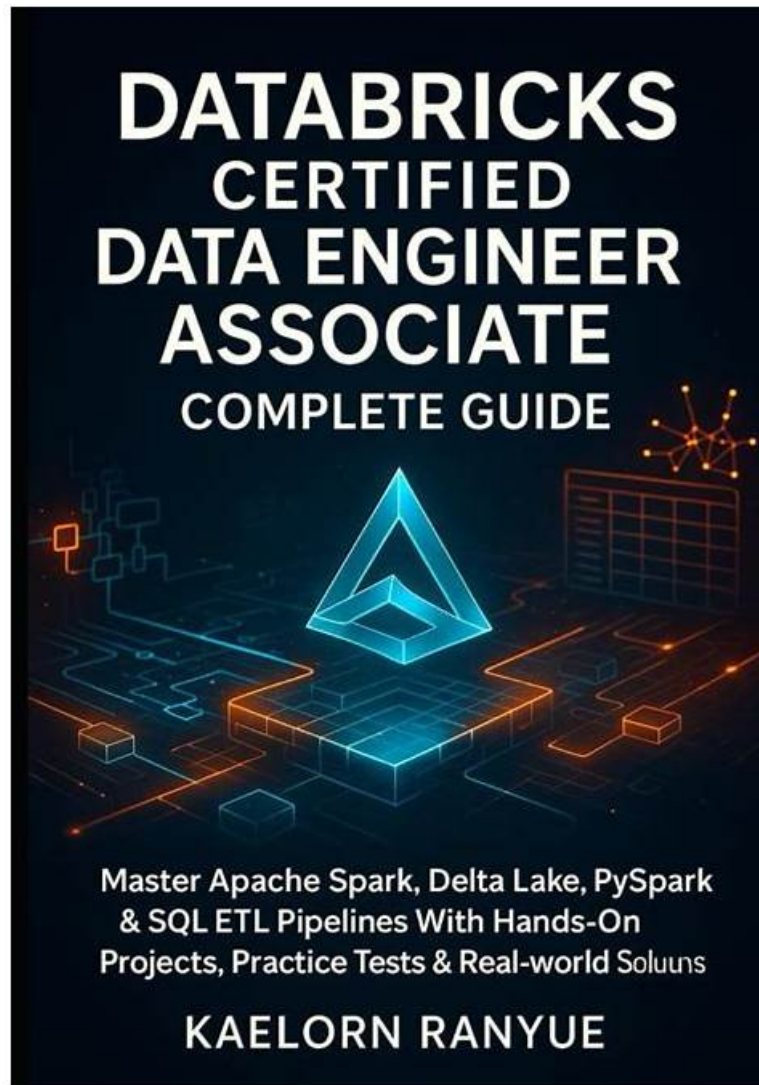# Reliable Databricks-Certified-Professional-Data-Engineer Test Questions | Databricks-Certified-Professional-Data-Engineer Brain Exam

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Databricks Certified Professional Data Engineer (Databricks-Certified-Professional-Data-Engineer) exam is designed for professionals who want to showcase their skills in building data pipelines and managing data workflows on Databricks. Databricks is a cloud-based data platform that provides powerful tools for data engineering, data science, and machine learning. Databricks Certified Professional Data Engineer Exam certification exam is intended to validate the candidates' ability to design, build, and maintain data processing systems using Databricks.

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Databricks Certified Professional Data Engineer Exam Sample Questions (Q84-Q89):

NEW QUESTION # 84
Which statement characterizes the general programming model used by Spark Structured Streaming?

- A. Structured Streaming relies on a distributed network of nodes that hold incremental state values for cached stages.
- B. Structured Streaming is implemented as a messaging bus and is derived from Apache Kafka.
- C. Structured Streaming uses specialized hardware and I/O streams to achieve sub-second latency for data transfer.
- D. Structured Streaming leverages the parallel processing of GPUs to achieve highly parallel data throughput.
- E. Structured Streaming models new data arriving in a data stream as new rows appended to an unbounded table.

Answer: E

Explanation:
Explanation
This is the correct answer because it characterizes the general programming model used by Spark Structured Streaming, which is to treat a live data stream as a table that is being continuously appended. This leads to a new stream processing model that is very similar to a batch processing model, where users can express their streaming computation using the same Dataset/DataFrame API as they would use for static data. The Spark SQL engine will take care of running the streaming query incrementally and continuously and updating the final result as streaming data continues to arrive. Verified References: [Databricks Certified Data Engineer Professional], under "Structured Streaming" section; Databricks Documentation, under "Overview" section.

NEW QUESTION # 85
You are currently working to ingest millions of files that get uploaded to the cloud object storage for consumption, and you are asked to build a process to ingest this data, the schema of the file is expected to change over time, and the ingestion process should be able to handle these changes automatically. Which of the following method can be used to ingest the data incrementally?

- A. COPY INTO
- B. AUTO APPEND
- C. AUTO LOADER
- D. Structured Streaming
- E. Checkpoint

Answer: C

Explanation:
Explanation
The answer is AUTO LOADER,
Use Auto Loader instead of the COPY INTO SQL command when:
*You want to load data from a file location that contains files in the order of millions or higher. Auto Loader can discover files more efficiently than the COPY INTO SQL command and can split file processing into multiple batches.

*COPY INTO only directory listing but AUTO LOADER supports File notification method where the Auto Loader continues to ingest files as they arrive in cloud object storage lever-aging cloud provider(Queues and triggers) and Spark's structured streaming.
*Your data schema evolves frequently. Auto Loader provides better support for schema in-ference and evolution. See Configuring schema inference and evolution in Auto Loader.

NEW QUESTION # 86
A Databricks job has been configured with 3 tasks, each of which is a Databricks notebook. Task A does not depend on other tasks. Tasks B and C run in parallel, with each having a serial dependency on task A.
If tasks A and B complete successfully but task C fails during a scheduled run, which statement describes the resulting state?

- A. All logic expressed in the notebook associated with tasks A and B will have been successfully completed; any changes made in task C will be rolled back due to task failure.
- B. Unless all tasks complete successfully, no changes will be committed to the Lakehouse; because task C failed, all commits will be rolled back automatically.
- C. Because all tasks are managed as a dependency graph, no changes will be committed to the Lakehouse until ail tasks have successfully been completed.
- D. All logic expressed in the notebook associated with tasks A and B will have been successfully completed; some operations in task C may have completed successfully.
- E. All logic expressed in the notebook associated with task A will have been successfully completed; tasks B and C will not commit any changes because of stage failure.

Answer: D

Explanation:
The query uses the CREATE TABLE USING DELTA syntax to create a Delta Lake table from an existing Parquet file stored in DBFS. The query also uses the LOCATION keyword to specify the path to the Parquet file as /mnt/finance_eda_bucket/tx_sales.parquet. By using the LOCATION keyword, the query creates an external table, which is a table that is stored outside of the default warehouse directory and whose metadata is not managed by Databricks. An external table can be created from an existing directory in a cloud storage system, such as DBFS or S3, that contains data files in a supported format, such as Parquet or CSV.
The resulting state after running the second command is that an external table will be created in the storage container mounted to /mnt/finance_eda_bucket with the new name prod.sales_by_store. The command will not change any data or move any files in the storage container; it will only update the table reference in the metastore and create a new Delta transaction log for the renamed table. Verified References: [Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "ALTER TABLE RENAME TO" section; Databricks Documentation, under "Create an external table" section.

NEW QUESTION # 87
A DLT pipeline includes the following streaming tables:
Raw_lot ingest raw device measurement data from a heart rate tracking device.
Bgm_stats incrementally computes user statistics based on BPM measurements from raw_lot.
How can the data engineer configure this pipeline to be able to retain manually deleted or updated records in the raw_iot table while recomputing the downstream table when a pipeline update is run?

- A. Set the SkipChangeCommits flag to true raw_lot
- B. Set the pipelines, reset, allowed property to false on raw_iot
- C. Set the pipelines, reset, allowed property to false on bpm_stats
- D. Set the skipChangeCommits flag to true on bpm_stats

Answer: B

NEW QUESTION # 88
A new data engineer notices that a critical field was omitted from an application that writes its Kafka source to Delta Lake. This happened even though the critical field was in the Kafka source. That field was further missing from data written to dependent, long-term storage. The retention threshold on the Kafka service is seven days. The pipeline has been in production for three months. Which describes how Delta Lake can help to avoid data loss of this nature in the future?

- A. The Delta log and Structured Streaming checkpoints record the full history of the Kafka producer.
- B. Data can never be permanently dropped or deleted from Delta Lake, so data loss is not possible under any circumstance.
- C. Delta Lake automatically checks that all fields present in the source data are included in the ingestion layer.
- D. Delta Lake schema evolution can retroactively calculate the correct value for newly added fields, as long as the data was in the original source.
- E. Ingestine all raw data and metadata from Kafka to a bronze Delta table creates a permanent, replayable history of the data state.

Answer: E

Explanation:
This is the correct answer because it describes how Delta Lake can help to avoid data loss of this nature in the future. By ingesting all raw data and metadata from Kafka to a bronze Delta table, Delta Lake creates a permanent, replayable history of the data state that can be used for recovery or reprocessing in case of errors or omissions in downstream applications or pipelines. Delta Lake also supports schema evolution, which allows adding new columns to existing tables without affecting existing queries or pipelines. Therefore, if a critical field wasomitted from an application that writes its Kafka source to Delta Lake, it can be easily added later and the data can be reprocessed from the bronze table without losing any information. Verified References:
[Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "Delta Lake core features" section.

NEW QUESTION # 89
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