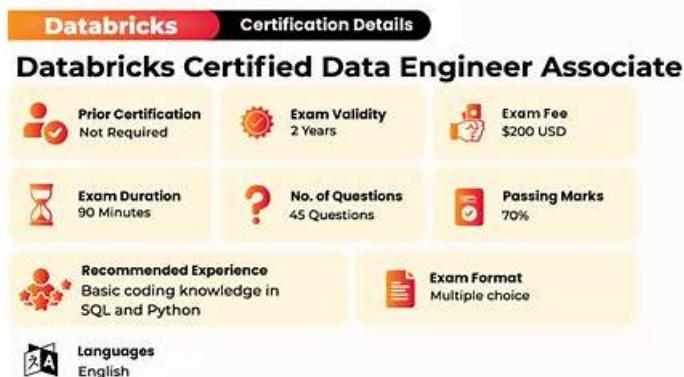


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Databricks Certified Data Engineer Associate Exam covers a range of topics related to data engineering, including data ingestion, ETL (extract, transform, load) processes, data modeling, and data warehousing. Databricks-Certified-Data-Engineer-Associate Exam also covers Databricks-specific tools and technologies, such as Databricks Delta Lake and Databricks Runtime. Passing the exam requires a deep understanding of these topics and the ability to apply that knowledge in real-world scenarios. Successful candidates will have demonstrated their ability to design and implement reliable, scalable, and efficient data pipelines using Databricks.

The Databricks Certified Data Engineer Associate Exam certification exam focuses on various topics related to data engineering, including data ingestion, data processing, data warehousing, and data analytics. It also covers the fundamentals of big data processing and distributed computing, making it an ideal certification for professionals who want to work with large-scale data sets.

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Databricks Certified Data Engineer Associate Exam Sample Questions (Q101-Q106):

NEW QUESTION # 101

A new data engineering team has been assigned to an ELT project. The new data engineering team will need full privileges on the table sales to fully manage the project.

Which of the following commands can be used to grant full permissions on the database to the new data engineering team?

- A. GRANT ALL PRIVILEGES ON TABLE sales TO team;
- B. GRANT ALL PRIVILEGES ON TABLE team TO sales;
- C. GRANT SELECT CREATE MODIFY ON TABLE sales TO team;
- D. GRANT USAGE ON TABLE sales TO team;

- E. GRANT SELECT ON TABLE sales TO team;

Answer: A

NEW QUESTION # 102

A Delta Live Table pipeline includes two datasets defined using STREAMING LIVE TABLE. Three datasets are defined against Delta Lake table sources using LIVE TABLE.

The table is configured to run in Production mode using the Continuous Pipeline Mode.

Assuming previously unprocessed data exists and all definitions are valid, what is the expected outcome after clicking Start to update the pipeline?

- A. All datasets will be updated once and the pipeline will shut down. The compute resources will persist to allow for additional testing.
- B. All datasets will be updated once and the pipeline will shut down. The compute resources will be terminated.
- **C. All datasets will be updated at set intervals until the pipeline is shut down. The compute resources will be deployed for the update and terminated when the pipeline is stopped.**
- D. All datasets will be updated at set intervals until the pipeline is shut down. The compute resources will persist to allow for additional testing.
- E. All datasets will be updated once and the pipeline will persist without any processing. The compute resources will persist but go unused.

Answer: C

Explanation:

Explanation

In a Delta Live Table pipeline running in Continuous Pipeline Mode, when you click Start to update the pipeline, the following outcome is expected: All datasets defined using STREAMING LIVE TABLE and LIVE TABLE against Delta Lake table sources will be updated at set intervals. The compute resources will be deployed for the update process and will be active during the execution of the pipeline. The compute resources will be terminated when the pipeline is stopped or shut down. This mode allows for continuous and periodic updates to the datasets as new data arrives or changes in the underlying Delta Lake tables occur. The compute resources are provisioned and utilized during the update intervals to process the data and perform the necessary operations.

NEW QUESTION # 103

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

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

Answer: A

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. References: 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 # 104

In order for Structured Streaming to reliably track the exact progress of the processing so that it can handle any kind of failure by restarting and/or reprocessing, which of the following two approaches is used by Spark to record the offset range of the data being processed in each trigger?

- A. Structured Streaming cannot record the offset range of the data being processed in each trigger.
- B. Checkpointing and Idempotent Sinks
- **C. Checkpointing and Write-ahead Logs**
- D. Write-ahead Logs and Idempotent Sinks
- E. Replayable Sources and Idempotent Sinks

Answer: C

Explanation:

Structured Streaming uses checkpointing and write-ahead logs to record the offset range of the data being processed in each trigger. This ensures that the engine can reliably track the exact progress of the processing and handle any kind of failure by restarting and/or reprocessing. Checkpointing is the mechanism of saving the state of a streaming query to fault-tolerant storage (such as HDFS) so that it can be recovered after a failure.

Write-ahead logs are files that record the offset range of the data being processed in each trigger and are written to the checkpoint location before the processing starts. These logs are used to recover the query state and resume processing from the last processed offset range in case of a failure. References: Structured Streaming Programming Guide, Fault Tolerance Semantics

NEW QUESTION # 105

A data engineer is designing a data pipeline. The source system generates files in a shared directory that is also used by other processes. As a result, the files should be kept as is and will accumulate in the directory.

The data engineer needs to identify which files are new since the previous run in the pipeline, and set up the pipeline to only ingest those new files with each run.

Which of the following tools can the data engineer use to solve this problem?

- **A. Auto Loader**
- B. Delta Lake
- C. Data Explorer
- D. Unity Catalog
- E. Databricks SQL

Answer: A

Explanation:

Auto Loader is a tool that can incrementally and efficiently process new data files as they arrive in cloud storage without any additional setup. Auto Loader provides a Structured Streaming source called `cloudFiles`, which automatically detects and processes new files in a given input directory path on the cloud file storage.

Auto Loader also tracks the ingestion progress and ensures exactly-once semantics when writing data into Delta Lake. Auto Loader can ingest various file formats, such as JSON, CSV, XML, PARQUET, AVRO, ORC, TEXT, and BINARYFILE. Auto Loader has support for both Python and SQL in Delta Live Tables, which are a declarative way to build production-quality data pipelines with Databricks. References: What is Auto Loader?, Get started with Databricks Auto Loader, Auto Loader in Delta Live Tables

NEW QUESTION # 106

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