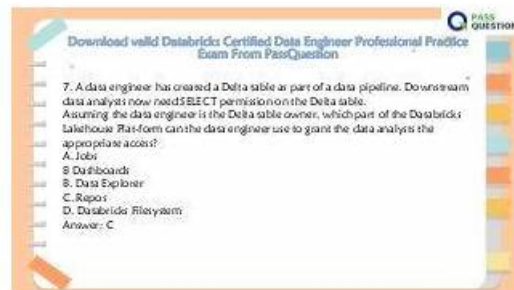


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Databricks Certified Data Engineer Professional Exam Sample Questions (Q129-Q134):

NEW QUESTION # 129

A data engineer is building a customer data pipeline in Lakeflow Spark Declarative Pipelines. The source is a cloud-based event

stream with limited retention containing inserts, updates, and deletes for customer records. These changes are being applied using the AUTO CDC INTO syntax to maintain an SCD Type 1 table as the target table, customer_dim. How should the data engineer build a downstream job that streams from the customer_dim table to only act on updates and delete events, processing data incrementally?

- A. Use ignoreChanges flag while streaming from customer_dim to avoid breaking the pipeline during updates and deletes.
- **B. Read change data feed from customer_dim table and apply filters to incrementally act on the change events.**
- C. Streaming from customer_dim table would only be possible in the case of SCD 2 retention.
- D. When stored as SCD 1, the target of AUTO CDC INTO includes updates and deletes. Streaming from customer_dim can fail due to these operations. Instead, build another stream from the original source.

Answer: B

Explanation:

Reading the change data feed from the customer_dim table enables downstream processing to react specifically to update and delete events while operating incrementally. Change data feed exposes row-level change types and versions, making it the correct mechanism for streaming only the relevant changes from an SCD Type 1 table maintained with AUTO CDC INTO.

NEW QUESTION # 130

Which statement describes integration testing?

- **A. Validates interactions between subsystems of your application**
- B. Requires an automated testing framework
- C. Validates behavior of individual elements of your application
- D. Requires manual intervention
- E. Validates an application use case

Answer: A

Explanation:

Integration testing is a type of software testing where components of the software are gradually integrated and then tested as a unified group.

NEW QUESTION # 131

A query is taking too long to run. After investigating the Spark UI, the data engineer discovered a significant amount of disk spill. The compute instance being used has a core-to-memory ratio of 1:2. What are the two steps the data engineer should take to minimize spillage? (Choose two.)

- **A. Choose a compute instance with a higher core-to-memory ratio.**
- B. Choose a compute instance with more network bandwidth.
- C. Choose a compute instance with more disk space.
- **D. Reduce spark.sql.files.maxPartitionBytes.**
- E. Increase spark.sql.files.maxPartitionBytes.

Answer: A,D

Explanation:

Databricks recommends addressing disk spilling--which occurs when Spark tasks run out of memory--by increasing memory per core and controlling partition size. Selecting an instance type with a higher memory-to-core ratio (A) provides each task with more available RAM, directly reducing the chance of spilling to disk. Additionally, reducing spark.sql.files.maxPartitionBytes (D) creates smaller partitions, preventing any single task from holding too much data in memory. Increasing partition size (C) or disk capacity (B) does not solve memory bottlenecks, and bandwidth (E) affects network I/O, not spill behavior. Therefore, the correct actions are A and D.

NEW QUESTION # 132

Which statement describes Delta Lake optimized writes?

- **A. A shuffle occurs prior to writing to try to group data together resulting in fewer files instead of each executor writing**

multiple files based on directory partitions.

- B. Before a job cluster terminates, OPTIMIZE is executed on all tables modified during the most recent job.
 - C. An asynchronous job runs after the write completes to detect if files could be further compacted; yes, an OPTIMIZE job is executed toward a default of 1 GB.
 - D. Optimized writes logical partitions instead of directory partitions partition boundaries are only Get Latest & Actual
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Answer: A

Explanation:

Delta Lake optimized writes involve a shuffle operation before writing out data to the Delta table.

The shuffle operation groups data by partition keys, which can lead to a reduction in the number of output files and potentially larger files, instead of multiple smaller files. This approach can significantly reduce the total number of files in the table, improve read performance by reducing the metadata overhead, and optimize the table storage layout, especially for workloads with many small files.

NEW QUESTION # 133

An upstream system is emitting change data capture (CDC) logs that are being written to a cloud object storage directory. Each record in the log indicates the change type (insert, update, or delete) and the values for each field after the change. The source table has a primary key identified by the field `pk_id`.

For auditing purposes, the data governance team wishes to maintain a full record of all values that have ever been valid in the source system. For analytical purposes, only the most recent value for each record needs to be recorded. The Databricks job to ingest these records occurs once per hour, but each individual record may have changed multiple times over the course of an hour.

Which solution meets these requirements?

- A. Create a separate history table for each `pk_id` resolve the current state of the table by running a union all filtering the history tables for the most recent state.
- B. Iterate through an ordered set of changes to the table, applying each in turn; rely on Delta Lake's versioning ability to create an audit log.
- C. Ingest all log information into a bronze table; use merge into to insert, update, or delete the most recent entry for each `pk_id` into a silver table to recreate the current table state.
- D. Use merge into to insert, update, or delete the most recent entry for each `pk_id` into a bronze table, then propagate all changes throughout the system.
- E. Use Delta Lake's change data feed to automatically process CDC data from an external system, propagating all changes to all dependent tables in the Lakehouse.

Answer: C

Explanation:

CDF captures changes only from a Delta table and is only forward-looking once enabled. The CDC logs are writing to object storage. So you would need to ingest those and merge into downstream tables.

NEW QUESTION # 134

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