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Databricks Certified Professional Data Engineer Exam Sample Questions (Q107-Q112):

NEW QUESTION # 107

A table is registered with the following code:

```
CREATE TABLE recent_orders AS (
  SELECT a.user_id, a.email, b.order_id, b.order_date
  FROM
    (SELECT user_id, email
     FROM users) a
  INNER JOIN
    (SELECT user_id, order_id, order_date
     FROM orders
     WHERE order_date >= (current_date() - 7)) b
  ON a.user_id = b.user_id
)
```

Both users and orders are Delta Lake tables. Which statement describes the results of querying recent_orders?

- A. Results will be computed and cached when the table is defined; these cached results will incrementally update as new records are inserted into source tables.
- B. All logic will execute at query time and return the result of joining the valid versions of the source tables at the time the query finishes.
- C. All logic will execute when the table is defined and store the result of joining tables to the DBFS; this stored data will be returned when the table is queried.
- D. The versions of each source table will be stored in the table transaction log; query results will be saved to DBFS with each query.
- E. All logic will execute at query time and return the result of joining the valid versions of the source tables at the time the query began.

Answer: C

NEW QUESTION # 108

A data engineer created a daily batch ingestion pipeline using a cluster with the latest DBR version to store banking transaction data, and persisted it in a MANAGED DELTA table called prod.gold.all_banking_transactions_daily. The data engineer is constantly receiving complaints from business users who query this table ad hoc through a SQL Serverless Warehouse about poor query performance. Upon analysis, the data engineer identified that these users frequently use high-cardinality columns as filters. The engineer now seeks to implement a data layout optimization technique that is incremental, easy to maintain, and can evolve over time. Which command should the data engineer implement?

- A. Alter the table to use Z-ORDER and implement a periodic OPTIMIZE command.
- B. Alter the table to use Liquid Clustering and implement a periodic OPTIMIZE command.
- C. Alter the table to use Hive-Style Partitions and implement a periodic OPTIMIZE command.
- D. Alter the table to use Hive-Style Partitions + Z-ORDER and implement a periodic OPTIMIZE command.

Answer: B

Explanation:

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

Databricks recommends Liquid Clustering for optimizing data layout in large Delta tables where query filters involve high-cardinality columns. Liquid Clustering automatically manages file organization and supports incremental maintenance without the need to rewrite data when clustering keys evolve. This is a key advantage over static partitioning or Z-ordering, which require costly file rewrites whenever optimization keys change. By combining Liquid Clustering with a periodic OPTIMIZE command, Databricks automatically compacts small files and maintains efficient data skipping performance. As stated in the Delta Lake optimization guide, Liquid Clustering is designed for scalability, minimal maintenance, and adaptability for analytical workloads with evolving query patterns-making B the correct answer.

NEW QUESTION # 109

What is the main difference between the silver layer and the gold layer in medalion architecture?

- A. Silver is a copy of bronze data

- B. Silver may contain aggregated data
- C. Gold may contain aggregated data
- D. Data quality checks are applied in gold
- E. Gold is a copy of silver data

Answer: C

Explanation:

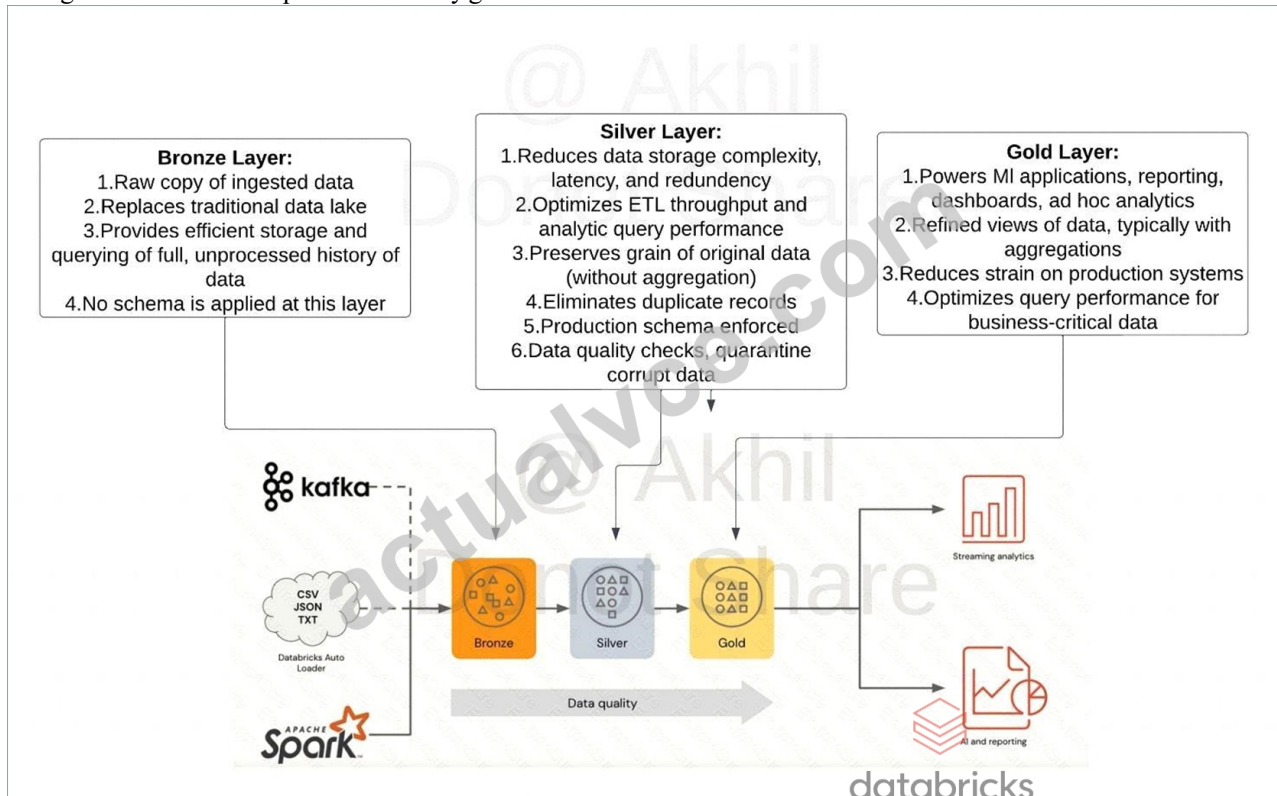
Explanation

Medallion Architecture - Databricks

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.

Sorry I had to add the watermark some people in Udemmy are copying my content.

A diagram of a house Description automatically generated with low confidence



NEW QUESTION # 110

Where in the Spark UI can one diagnose a performance problem induced by not leveraging predicate push-down?

- A. In the Query Detail screen, by interpreting the Physical Plan
- B. In the Executor's log file, by gripping for "predicate push-down"
- C. In the Stage's Detail screen, in the Completed Stages table, by noting the size of data read from the Input column
- D. In the Delta Lake transaction log, by noting the column statistics
- E. In the Storage Detail screen, by noting which RDDs are not stored on disk

Answer: A

Explanation:

This is the correct answer because it is where in the Spark UI one can diagnose a performance problem induced by not leveraging predicate push-down. Predicate push-down is an optimization technique that allows filtering data at the source before loading it into memory or processing it further. This can improve performance and reduce I/O costs by avoiding reading unnecessary data. To leverage predicate push-down, one should use supported data sources and formats, such as Delta Lake, Parquet, or JDBC, and use filter expressions that can be pushed down to the source. To diagnose a performance problem induced by not leveraging predicate push-down, one can use the Spark UI to access the Query Detail screen, which shows information about a SQL query executed on a Spark cluster. The Query Detail screen includes the Physical Plan, which is the actual plan executed by Spark to perform the query. The Physical Plan shows the physical operators used by Spark, such as Scan, Filter, Project, or Aggregate, and their input

and output statistics, such as rows and bytes. By interpreting the Physical Plan, one can see if the filter expressions are pushed down to the source or not, and how much data is read or processed by each operator. Verified Reference: [Databricks Certified Data Engineer Professional], under "Spark Core" section; Databricks Documentation, under "Predicate pushdown" section; Databricks Documentation, under "Query detail page" section.

NEW QUESTION # 111

A data engineer is configuring a Lakeflow Declarative Pipeline to process CDC (Change Data Capture) data from a source. The source events sometimes arrive out of order, and multiple updates may occur with the same `update_timestamp` but with different `update_sequence_id`.

What should the data engineer do to ensure events are sequenced correctly?

- A. O Set `track_history_column_list` to `[event_timestamp, event_id]` in AUTO CDC APIs.
- B. O Use a window function to sort `update_sequence_id` within the same partition, i.e., `update_timestamp` in the LDP pipeline.
- C. O Use **SEQUENCE BY STRUCT(event_timestamp, update_sequence_id)** in AUTO CDC APIs.
- D. O Use `dropDuplicates()` to remove out-of-order and duplicate records in LDP.

Answer: C

Explanation:

Comprehensive and Detailed Explanation from Databricks Documentation:

When handling CDC data, sequencing is critical because updates may arrive out of order or multiple changes may occur for the same record at the same timestamp. Databricks' AUTO CDC APIs provide built-in constructs to handle ordering logic.

The correct mechanism is to use the `SEQUENCE BY` clause in the CDC configuration. Specifically, when both `update_timestamp` and `update_sequence_id` exist, the recommended approach is:

`SEQUENCE BY STRUCT(event_timestamp, update_sequence_id)`

This ensures that within the same record key, the engine applies updates in the exact sequence they occurred, resolving conflicts where multiple updates share the same timestamp but differ in sequence ID.

Option A (`track_history_column_list`) is used for historical tracking and auditing changes, not for sequencing logic. It ensures lineage but does not enforce correct event order.

Option B (`dropDuplicates()`) only removes exact duplicates; it cannot guarantee sequencing correctness when multiple updates exist.

Option C is correct: `SEQUENCE BY STRUCT(event_timestamp, update_sequence_id)` explicitly enforces ordering, as recommended by the CDC pipeline guidelines.

Option D (window function) would be a manual approach in Spark Structured Streaming, but Lakeflow Declarative Pipelines already provide native CDC sequencing support, making this unnecessary.

Thus, the best practice per Databricks CDC documentation is to use Option C with `SEQUENCE BY STRUCT`.

NEW QUESTION # 112

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