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Databricks Certified Professional Data Engineer Exam Sample Questions (Q29-Q34):

NEW QUESTION # 29

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

Answer: D

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 # 30

A member of the data engineering team has submitted a short notebook that they wish to schedule as part of a larger data pipeline. Assume that the commands provided below produce the logically correct results when run as presented.

Which command should be removed from the notebook before scheduling it as a job?

- A. Cmd 5
- B. Cmd 2
- C. Cmd 4
- **D. Cmd 6**
- E. Cmd 3

Answer: D

Explanation:

Cmd 6 is the command that should be removed from the notebook before scheduling it as a job. This command is selecting all the columns from the finalDF dataframe and displaying them in the notebook. This is not necessary for the job, as the finalDF dataframe is already written to a table in Cmd 7. Displaying the dataframe in the notebook will only consume resources and time, and it will not affect the output of the job.

Therefore, Cmd 6 is redundant and should be removed.

The other commands are essential for the job, as they perform the following tasks:

* Cmd 1: Reads the raw_data table into a Spark dataframe called rawDF.

* Cmd 2: Prints the schema of the rawDF dataframe, which is useful for debugging and understanding the data structure.

* Cmd 3: Selects all the columns from the rawDF dataframe, as well as the nested columns from the values struct column, and creates a new dataframe called flattenedDF.

* Cmd 4: Drops the values column from the flattenedDF dataframe, as it is no longer needed after flattening, and creates a new dataframe called finalDF.

* Cmd 5: Explains the physical plan of the finalDF dataframe, which is useful for optimizing and tuning the performance of the job.

* Cmd 7: Writes the finalDF dataframe to a table called flat_data, using the append mode to add new data to the existing table.

NEW QUESTION # 31

Each configuration below is identical to the extent that each cluster has 400 GB total of RAM, 160 total cores and only one Executor per VM.

Given a job with at least one wide transformation, which of the following cluster configurations will result in maximum performance?

- A. * Total VMs: 1
 - * 400 GB per Executor
 - * 160 Cores / Executor
- **B. * Total VMs: 8**
 - * 50 GB per Executor
 - * 20 Cores / Executor

Answer: B

Explanation:

C.

* Total VMs: 4

* 100 GB per Executor

* 40 Cores/Executor

D.

* Total VMs:2

* 200 GB per Executor

* 80 Cores / Executor

Explanation:

This is the correct answer because it is the cluster configuration that will result in maximum performance for a job with at least one wide transformation. A wide transformation is a type of transformation that requires shuffling data across partitions, such as join, groupBy, or orderBy. Shuffling can be expensive and time-consuming, especially if there are too many or too few partitions. Therefore, it is important to choose a cluster configuration that can balance the trade-off between parallelism and network overhead. In this case, having 8 VMs with 50 GB per executor and 20 cores per executor will create 8 partitions, each with enough memory and CPU resources to handle the shuffling efficiently. Having fewer VMs with more memory and cores per executor will create fewer partitions, which will reduce parallelism and increase the size of each shuffle block. Having more VMs with less memory and cores per executor will create more partitions, which will increase parallelism but also increase the network overhead and the number of shuffle files. Verified Reference: [Databricks Certified Data Engineer Professional], under "Performance Tuning" section; Databricks Documentation, under "Cluster configurations" section.

NEW QUESTION # 32

When evaluating the Ganglia Metrics for a given cluster with 3 executor nodes, which indicator would signal proper utilization of the VM's resources?

- A. The five Minute Load Average remains consistent/flat
- B. Total Disk Space remains constant
- C. Network I/O never spikes
- D. Bytes Received never exceeds 80 million bytes per second
- E. CPU Utilization is around 75%

Answer: E

NEW QUESTION # 33

A data architect has designed a system in which two Structured Streaming jobs will concurrently write to a single bronze Delta table. Each job is subscribing to a different topic from an Apache Kafka source, but they will write data with the same schema. To keep the directory structure simple, a data engineer has decided to nest a checkpoint directory to be shared by both streams.

The proposed directory structure is displayed below:

□ Which statement describes whether this checkpoint directory structure is valid for the given scenario and why?

- A. No; only one stream can write to a Delta Lake table.
- B. No; each of the streams needs to have its own checkpoint directory.
- C. Yes; both of the streams can share a single checkpoint directory.
- D. Yes; Delta Lake supports infinite concurrent writers.
- E. No; Delta Lake manages streaming checkpoints in the transaction log.

Answer: B

Explanation:

This is the correct answer because checkpointing is a critical feature of Structured Streaming that provides fault tolerance and recovery in case of failures. Checkpointing stores the current state and progress of a streaming query in a reliable storage system, such as DBFS or S3. Each streaming query must have its own checkpoint directory that is unique and exclusive to that query. If two streaming queries share the same checkpoint directory, they will interfere with each other and cause unexpected errors or data loss. Verified References: [Databricks Certified Data Engineer Professional], under "Structured Streaming" section; Databricks Documentation, under "Checkpointing" section.

NEW QUESTION # 34

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