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Databricks Certified Professional Data Engineer Exam Sample Questions (Q159-Q164):

NEW QUESTION # 159
A team of data engineer are adding tables to a DLT pipeline that contain repetitive expectations for many of the same data quality checks.
One member of the team suggests reusing these data quality rules across all tables defined for this pipeline.
What approach would allow them to do this?

- A. Maintain data quality rules in a Delta table outside of this pipeline's target schema, providing the schema name as a pipeline parameter.
- B. Use global Python variables to make expectations visible across DLT notebooks included in the same pipeline.
- C. Maintain data quality rules in a separate Databricks notebook that each DLT notebook of file.
- D. Add data quality constraints to tables in this pipeline using an external job with access to pipeline configuration files.

Answer: A

Explanation:
Maintaining data quality rules in a centralized Delta table allows for the reuse of these rules across multiple DLT (Delta Live Tables) pipelines. By storing these rules outside the pipeline's target schema and referencing the schema name as a pipeline parameter, the team can apply the same set of data quality checks to different tables within the pipeline. This approach ensures consistency in data quality validations and reduces redundancy in code by not having to replicate the same rules in each DLT notebook or file.
Reference:
Databricks Documentation on Delta Live Tables: Delta Live Tables Guide

NEW QUESTION # 160
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 6
- C. Cmd 4
- D. Cmd 3
- E. Cmd 2

Answer: B

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 # 161
Which of the following SQL statements can be used to update a transactions table, to set a flag on the table from Y to N

- A. UPDATE transactions SET active_flag = 'N' WHERE active_flag = 'Y'
- B. MERGE transactions SET active_flag = 'N' WHERE active_flag = 'Y'
- C. MODIFY transactions SET active_flag = 'N' WHERE active_flag = 'Y'
- D. REPLACE transactions SET active_flag = 'N' WHERE active_flag = 'Y'

Answer: D

Explanation:
Explanation
The answer is
UPDATE transactions SET active_flag = 'N' WHERE active_flag = 'Y'
Delta Lake supports UPDATE statements on the delta table, all of the changes as part of the update are ACID compliant.

NEW QUESTION # 162
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: 4
  * 100 GB per Executor
  * 40 Cores/Executor
- B. * Total VMs; 1
  * 400 GB per Executor
  * 160 Cores / Executor
- C. * Total VMs:2
  * 200 GB per Executor
  * 80 Cores / Executor
- D. * Total VMs: 8
  * 50 GB per Executor
  * 20 Cores / Executor

Answer: D

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 References: [Databricks Certified Data Engineer Professional], under "Performance Tuning" section; Databricks Documentation, under "Cluster configurations" section.

NEW QUESTION # 163
A production cluster has 3 executor nodes and uses the same virtual machine type for the driver and executor.
When evaluating the Ganglia Metrics for this cluster, which indicator would signal a bottleneck caused by code executing on the driver?

- A. Overall cluster CPU utilization is around 25%
- B. Bytes Received never exceeds 80 million bytes per second
- C. The five Minute Load Average remains consistent/flat
- D. Network I/O never spikes
- E. Total Disk Space remains constant

Answer: A

Explanation:

This is the correct answer because it indicates a bottleneck caused by code executing on the driver. A bottleneck is a situation where the performance or capacity of a system is limited by a single component or resource. A bottleneck can cause slow execution, high latency, or low throughput. A production cluster has 3 executor nodes and uses the same virtual machine type for the driver and executor. When evaluating the Ganglia Metrics for this cluster, one can look for indicators that show how the cluster resources are being utilized, such as CPU, memory, disk, or network. If the overall cluster CPU utilization is around 25%, it means that only one out of the four nodes (driver + 3 executors) is using its full CPU capacity, while the other three nodes are idle or underutilized. This suggests that the code executing on the driver is taking too long or consuming too much CPU resources, preventing the executors from receiving tasks or data to process. This can happen when the code has driver-side operations that are not parallelized or distributed, such as collecting large amounts of data to the driver, performing complex calculations on the driver, or using non-Spark libraries on the driver. Verified References: [Databricks Certified Data Engineer Professional], under "Spark Core" section; Databricks Documentation, under "View cluster status and event logs - Ganglia metrics" section; Databricks Documentation, under "Avoid collecting large RDDs" section.
In a Spark cluster, the driver node is responsible for managing the execution of the Spark application, including scheduling tasks, managing the execution plan, and interacting withthe cluster manager. If the overall cluster CPU utilization is low (e.g., around 25%), it may indicate that the driver node is not utilizing the available resources effectively and might be a bottleneck.

NEW QUESTION # 164
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