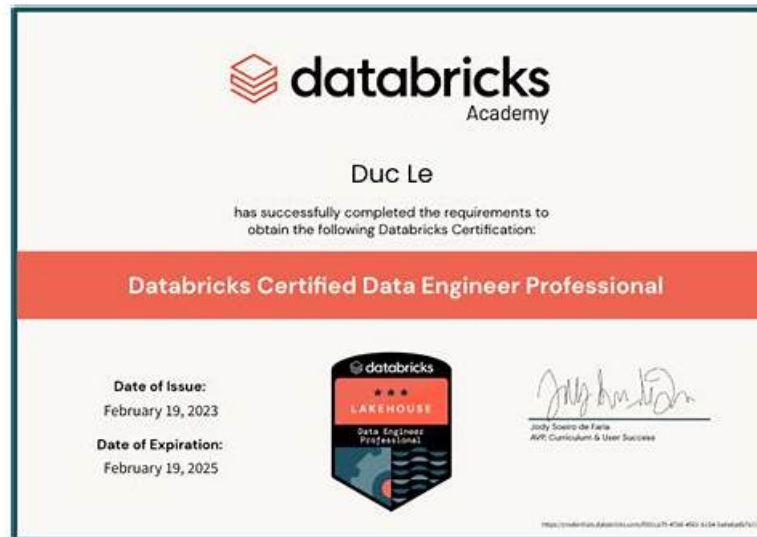


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Databricks Certified Data Engineer Professional Exam Sample Questions (Q96-Q101):

NEW QUESTION # 96

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. Bytes Received never exceeds 80 million bytes per second
- **D. CPU Utilization is around 75% Get Latest & Actual Certified-Data-Engineer-Professional Exam's Question and Answers from**
- E. Network I/O never spikes

Answer: D

Explanation:

In the context of cluster performance and resource utilization, a CPU utilization rate of around 75% is generally considered a good indicator of efficient resource usage. This level of CPU utilization suggests that the cluster is being effectively used without being overburdened or underutilized. A consistent 75% CPU utilization indicates that the cluster's processing power is being effectively employed while leaving some headroom to handle spikes in workload or additional tasks without maxing out the CPU, which could lead to performance degradation. A five Minute Load Average that remains consistent/flat (Option A) might indicate underutilization or a bottleneck elsewhere.

Monitoring network I/O (Options B and C) is important, but these metrics alone don't provide a complete picture of resource utilization efficiency.

Total Disk Space (Option D) remaining constant is not necessarily an indicator of proper resource utilization, as it's more related to storage rather than computational efficiency.

NEW QUESTION # 97

A data engineer wants to refactor the following DLT code, which includes multiple definition with very similar code:

□ In an attempt to programmatically create these tables using a parameterized table definition, the data engineer writes the following code.

□ The pipeline runs an update with this refactored code, but generates a different DAG showing incorrect configuration values for tables.

How can the data engineer fix this?

- A. Wrap the loop inside another table definition, using generalized names and properties to replace with those from the inner table
- **B. Convert the list of configuration values to a dictionary of table settings, using table names as keys.**
- C. Convert the list of configuration values to a dictionary of table settings, using different input the for loop.
- D. Load the configuration values for these tables from a separate file, located at a path provided by a pipeline parameter.

Answer: B

Explanation:

The issue with the refactored code is that it tries to use string interpolation to dynamically create table names within the `dlc.table` decorator, which will not correctly interpret the table names.

Instead, by using a dictionary with table names as keys and their configurations as values, the data engineer can iterate over the dictionary items and use the keys (table names) to properly configure the table settings. This way, the decorator can correctly recognize each table name, and the corresponding configuration settings can be applied appropriately.

NEW QUESTION # 98

A data team is automating a daily multi-task ETL pipeline in Databricks. The pipeline includes a notebook for ingesting raw data, a Python wheel task for data transformation, and a SQL query to update aggregates. They want to trigger the pipeline programmatically and see previous runs in the GUI. They need to ensure tasks are retried on failure and stakeholders are notified by email if any task fails. Which two approaches will meet these requirements? (Choose two.)

- A. Use the REST API endpoint `/jobs/runs/submit` to trigger each task individually as separate job runs and implement retries using custom logic in the orchestrator.
- B. Use Databricks Asset Bundles (DABs) to deploy the workflow, then trigger individual tasks directly by referencing each task's notebook or script path in the workspace.
- **C. Trigger the job programmatically using the Databricks Jobs REST API (`/jobs/run-now`), the CLI (`databricks jobs run-now`), or one of the Databricks SDKs.**
- D. Create a single orchestrator notebook that calls each step with `dbutils.notebook.run()`, defining a job for that notebook and

configuring retries and notifications at the notebook level.

- E. Create a multi-task job using the UI, Databricks Asset Bundles (DABs), or the Jobs REST API (/jobs/create) with notebook, Python wheel, and SQL tasks. Configure task-level retries and email notifications in the job definition.

Answer: C,E

Explanation:

Databricks Jobs supports defining multi-task workflows that include notebooks, SQL statements, and Python wheel tasks. These can be configured with retry policies, dependency chains, and failure notifications. The correct practice, as stated in the documentation, is to use the Jobs REST API (/jobs/create) or Databricks Asset Bundles to define multi-task jobs, and then trigger them programmatically using /jobs/run-now, CLI, or SDK. This allows the team to maintain full job history, handle retries automatically, and receive alerts via configured email notifications. Using /jobs/runs/submit creates one-off ad hoc runs without maintaining dependency visibility. Therefore, options B and C together satisfy the operational, automation, and governance requirements.

NEW QUESTION # 99

Which statement describes the correct use of `pyspark.sql.functions.broadcast`?

- A. It marks a `DataFrame` as small enough to store in memory on all executors, allowing a broadcast join.
- B. It caches a copy of the indicated table on all nodes in the cluster for use in all future queries during the cluster lifetime.
- C. It marks a column as small enough to store in memory on all executors, allowing a broadcast join.
- D. It marks a column as having low enough cardinality to properly map distinct values to available partitions, allowing a broadcast join.
- E. It caches a copy of the indicated table on attached storage volumes for all active clusters within a Databricks workspace.

Answer: A

Explanation:

<https://spark.apache.org/docs/3.1.3/api/python/reference/api/pyspark.sql.functions.broadcast.html> The broadcast function in PySpark is used in the context of joins. When you mark a `DataFrame` with broadcast, Spark tries to send this `DataFrame` to all worker nodes so that it can be joined with another `DataFrame` without shuffling the larger `DataFrame` across the nodes. This is particularly beneficial when the `DataFrame` is small enough to fit into the memory of each node. It helps to optimize the join process by reducing the amount of data that needs to be shuffled across the cluster, which can be a very expensive operation in terms of computation and time.

The `pyspark.sql.functions.broadcast` function in PySpark is used to hint to Spark that a `DataFrame` is small enough to be broadcast to all worker nodes in the cluster. When this hint is applied, Spark can perform a broadcast join, where the smaller `DataFrame` is sent to each executor only once and joined with the larger `DataFrame` on each executor. This can significantly reduce the amount of data shuffled across the network and can improve the performance of the join operation. In a broadcast join, the entire smaller `DataFrame` is sent to each executor, not just a specific column or a cached version on attached storage. This function is particularly useful when one of the `DataFrames` in a join operation is much smaller than the other, and can fit comfortably in the memory of each executor node.

NEW QUESTION # 100

Which statement describes the default execution mode for Databricks Auto Loader?

- A. Webhook trigger Databricks job to run anytime new data arrives in a source directory; new data automatically merged into target tables using rules inferred from the data.
- B. New files are identified by listing the input directory; the target table is materialized by directory querying all valid files in the source directory.
- C. New files are identified by listing the input directory; new files are incrementally and idempotently loaded into the target Delta Lake table.
- D. Cloud vendor-specific queue storage and notification services are configured to track newly arriving files; new files are incrementally and idempotently into the target Delta Lake table.
- E. Cloud vendor-specific queue storage and notification services are configured to track newly arriving files; the target table is materialized by directly querying all valid files in the source directory.

Answer: C

Explanation:

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Databricks Auto Loader simplifies and automates the process of loading data into Delta Lake.

The default execution mode of the Auto Loader identifies new files by listing the input directory. It incrementally and idempotently loads these new files into the target Delta Lake table. This approach ensures that files are not missed and are processed exactly once, avoiding data duplication. The other options describe different mechanisms or integrations that are not part of the default behavior of the Auto Loader.

NEW QUESTION # 101

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