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Databricks Certified Professional Data Engineer Exam Sample Questions (Q206-Q211):

NEW QUESTION # 206

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

Answer: D

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 Reference: [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 with the 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 # 207

How are the operational aspects of Lakeflow Declarative Pipelines different from Spark Structured Streaming ?

- A. Lakeflow Declarative Pipelines automatically handle schema evolution, while Structured Streaming always requires manual schema management.
- B. Structured Streaming can process continuous data streams, while Lakeflow Declarative Pipelines cannot.
- C. Lakeflow Declarative Pipelines can write to Delta Lake format, while Structured Streaming cannot.
- **D. Lakeflow Declarative Pipelines manage the orchestration of multi-stage pipelines automatically, while Structured Streaming requires external orchestration for complex dependencies.**

Answer: D

Explanation:

Databricks documentation explains that Lakeflow Declarative Pipelines build upon Structured Streaming but add higher-level orchestration and automation capabilities. They automatically manage dependencies, materialization, and recovery across multi-stage data flows without requiring external orchestration tools such as Airflow or Azure Data Factory. In contrast, Structured Streaming operates at a lower level, where developers must manually handle orchestration, retries, and dependencies between streaming jobs. Both support Delta Lake outputs and schema evolution; however, Lakeflow Declarative Pipelines simplify management by declaratively defining transformations and data quality expectations. Hence, the correct distinction is A - automated orchestration and management in Lakeflow Declarative Pipelines.

NEW QUESTION # 208

The downstream consumers of a Delta Lake table have been complaining about data quality issues impacting performance in their applications. Specifically, they have complained that invalid latitude and longitude values in the activity_detail table have been breaking their ability to use other geolocation processes.

A junior engineer has written the following code to add CHECK constraints to the Delta Lake table:

```
ALTER TABLE activity_details
ADD CONSTRAINT valid_coordinates
CHECK (
  latitude >= -90 AND
  latitude <= 90 AND
  longitude >= -180 AND
  longitude <= 180);
```

A senior engineer has confirmed the above logic is correct and the valid ranges for latitude and longitude are provided, but the code fails when executed.

Which statement explains the cause of this failure?

- A. The activity details table already exists; CHECK constraints can only be added during initial table creation.
- B. The activity details table already contains records; CHECK constraints can only be added prior to inserting values into a table.
- C. Because another team uses this table to support a frequently running application, two-phase locking is preventing the operation from committing.
- **D. The activity details table already contains records that violate the constraints; all existing data must pass CHECK constraints in order to add them to an existing table.**
- E. The current table schema does not contain the field valid coordinates; schema evolution will need to be enabled before altering the table to add a constraint.

Answer: D

Explanation:

Explanation

The failure is that the code to add CHECK constraints to the Delta Lake table fails when executed. The code uses ALTER TABLE ADD CONSTRAINT commands to add two CHECK constraints to a table named activity_details. The first constraint checks if the latitude value is between -90 and 90, and the second constraint checks if the longitude value is between -180 and 180. The cause of this failure is that the activity_details table already contains records that violate these constraints, meaning that they have invalid latitude or longitude values outside of these ranges. When adding CHECK constraints to an existing table, Delta Lake verifies that all existing data satisfies the constraints before adding them to the table. If any record violates the constraints, Delta Lake throws an exception and aborts the operation. Verified References:

[Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "Add a CHECK constraint to an existing table" section.

NEW QUESTION # 209

A data engineer has created a new cluster using shared access mode with default configurations. The data engineer needs to allow the development team access to view the driver logs if needed.

What are the minimal cluster permissions that allow the development team to accomplish this?

- **A. CAN VIEW**
- B. CAN RESTART
- C. CAN ATTACH TO
- D. CAN MANAGE

Answer: A

Explanation:

Databricks provides different permission levels to control access to clusters. The correct minimal permission required for viewing driver logs is CAN VIEW.

Databricks Cluster Permission Levels:

* CAN ATTACH TO:

* Allows users to attach notebooks to a cluster but does not allow them to view logs.

* Not sufficient for viewing driver logs.

* CAN MANAGE:

* Grants full control over the cluster, including starting, stopping, and editing configurations.

- * Too broad for this requirement.
- * CAN VIEW (Correct Answer):
- * Allows users to view cluster details, logs, and status but not modify any configurations.
- * Minimal required permission for viewing logs.
- * CAN RESTART:
- * Grants permission to restart the cluster, but does not include log access.
- * Not sufficient for viewing logs.

Conclusion:

The minimal permission needed to allow the development team to view driver logs is CAN VIEW.

References:

Databricks Cluster Permissions Documentation

NEW QUESTION # 210

A data engineering team has been using a Databricks SQL query to monitor the performance of an ELT job. The ELT job is triggered by a specific number of input records being ready to process. The Databricks SQL query returns the number of minutes since the job's most recent runtime.

Which of the following approaches can enable the data engineering team to be notified if the ELT job has not been run in an hour?

- A. They can set up an Alert for the accompanying dashboard to notify them if the returned value is greater than 60
- **B. They can set up an Alert for the query to notify them if the returned value is greater than 60**
- C. They can set up an Alert for the query to notify when the ELT job fails
- D. This type of alerting is not possible in Databricks
- E. They can set up an Alert for the accompanying dashboard to notify when it has not re-freshed in 60 minutes

Answer: B

NEW QUESTION # 211

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