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Databricks Certified Data Engineer Professional Exam Sample Questions (Q27-Q32):

NEW QUESTION # 27

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

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.

NEW QUESTION # 28

A data engineer is building a customer data pipeline in Lakeflow Spark Declarative Pipelines. The source is a cloud-based event stream with limited retention containing inserts, updates, and deletes for customer records. These changes are being applied using the AUTO CDC INTO syntax to maintain an SCD Type 1 table as the target table, customer_dim. How should the data engineer build a downstream job that streams from the customer_dim table to only act on updates and delete events, processing data incrementally?

- A. Use ignoreChanges flag while streaming from customer_dim to avoid breaking the pipeline during updates and deletes.
- B. When stored as SCD 1, the target of AUTO CDC INTO includes updates and deletes. Streaming from customer_dim can fail due to these operations. Instead, build another stream from the original source.
- C. Read change data feed from customer_dim table and apply filters to incrementally act on the change events.
- D. Streaming from customer_dim table would only be possible in the case of SCD 2 retention.

Answer: C

Explanation:

Reading the change data feed from the customer_dim table enables downstream processing to react specifically to update and delete events while operating incrementally. Change data feed exposes row-level change types and versions, making it the correct mechanism for streaming only the relevant changes from an SCD Type 1 table maintained with AUTO CDC INTO.

NEW QUESTION # 29

An hourly batch job is configured to ingest data files from a cloud object storage container where each batch represent all records produced by the source system in a given hour. The batch job to process these records into the Lakehouse is sufficiently delayed to ensure no late-arriving data is missed. The user_id field represents a unique key for the data, which has the following schema: user_id BIGINT, username STRING, user_utc STRING, user_region STRING, last_login BIGINT, auto_pay BOOLEAN, last_updated BIGINT. New records are all ingested into a table named account_history which maintains a full record of all data in the same schema as the source. The next table in the system is named account_current and is implemented as a Type 1 table representing the most recent value for each unique user_id.

Assuming there are millions of user accounts and tens of thousands of records processed hourly, which implementation can be used to efficiently update the described account_current table as part of each hourly batch job?

- A. Use Auto Loader to subscribe to new files in the account history directory; configure a Structured Streaming trigger once job to batch update newly detected files into the account current table.
- B. Overwrite the account current table with each batch using the results of a query against the account history table grouping by user id and filtering for the max value of last updated.
- C. Filter records in account history using the last updated field and the most recent hour processed, making sure to deduplicate on username; write a merge statement to update or insert the most recent value for each username.
- D. Use Delta Lake version history to get the difference between the latest version of account history and one version prior, then write these records to account current.
- E. Filter records in account history using the last updated field and the most recent hour processed, as well as the max last login by user id write a merge statement to update or insert the most recent value for each user id.

Answer: E

Explanation:

This is the correct answer because it efficiently updates the account current table with only the most recent value for each user id. The code filters records in account history using the last updated field and the most recent hour processed, which means it will only process the latest batch of data. It also filters by the max last login by user id, which means it will only keep the most recent record for each user id within that batch. Then, it writes a merge statement to update or insert the most recent value for each user id into account current, which means it will perform an upsert operation based on the user id column.

NEW QUESTION # 30

A job runs four independent tasks (X, Y, Z, W) in parallel to process regional sales data. The Data Engineering team recently updated its cluster policy to ban cost-prohibitive instance types. Task Y now fails due to the newly enforced cluster policy restricting the use of a specific instance type.

A data engineer needs to resolve the failure quickly without disrupting the other tasks. How should the data engineer resolve the failure of tasks?

- A. Manually create a new cluster for Task Y, update the job configuration, and trigger a full re-run.
- **B. Use "Repair run", override the cluster configuration for Task Y to use a permitted instance type, and let Databricks re-run only Task Y.**
- C. Edit the global cluster policy to allow the restricted instance type, then re-run the entire job.
- D. Delete the failed run, disable the cluster policy, and re-execute all tasks.

Answer: B

Explanation:

Repair run allows re-running only the failed task without affecting successfully completed tasks.

Overriding the cluster configuration for the specific task resolves the policy violation quickly while keeping the rest of the job intact and minimizing disruption.

NEW QUESTION # 31

A junior data engineer has manually configured a series of jobs using the Databricks Jobs UI.

Upon reviewing their work, the engineer realizes that they are listed as the "Owner" for each job.

They attempt to transfer "Owner" privileges to the "DevOps" group, but cannot successfully accomplish this task.

Which statement explains what is preventing this privilege transfer?

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- **A. Databricks jobs must have exactly one owner; "Owner" privileges cannot be assigned to a group.**
- B. Other than the default "admins" group, only individual users can be granted privileges on jobs.
- C. The creator of a Databricks job will always have "Owner" privileges; this configuration cannot be changed.
- D. Only workspace administrators can grant "Owner" privileges to a group.
- E. A user can only transfer job ownership to a group if they are also a member of that group.

Answer: A

Explanation:

A job cannot have more than one owner. A job cannot have a group as an owner.

NEW QUESTION # 32

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