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Databricks Certified Data Engineer Professional Exam Sample Questions (Q205-Q210):

NEW QUESTION # 205

Spill occurs as a result of executing various wide transformations. However, diagnosing spill requires one to proactively look for key indicators.

Where in the Spark UI are two of the primary indicators that a partition is spilling to disk?

- A. Executor's detail screen and Executor's log files
- B. Driver's and Executor's log files

- C. Stage's detail screen and Query's detail screen
- **D. Stage's detail screen and Executor's log files**
- E. Query's detail screen and Job's detail screen

Answer: D

Explanation:

In the Spark UI, the Stage's detail screen provides key metrics about each stage of a job, including the amount of data that has been spilled to disk. If you see a high number in the "Spill (Memory)" or "Spill (Disk)" columns, it's an indication that a partition is spilling to disk.

The Executor's log files can also provide valuable information about spill. If a task is spilling a lot of data, you'll see messages in the logs like "Spilling UnsafeExternalSorter to disk" or "Task memory spill". These messages indicate that the task ran out of memory and had to spill data to disk.

NEW QUESTION # 206

A data engineer is working in an interactive notebook with many transformations before outputting the result from `display(df.collect())`. The notebook includes wide transformations and a cross join.

The data engineer is getting the following error: "The spark driver has stopped unexpectedly and is restarting. Your notebook will be automatically reattached." Which action should the data engineer take?

- **A. Rewrite their code to avoid putting memory pressure on the driver node.**
- B. Check into the Spark UI to see how many jobs are assigned to each stage as they are employing fewer executors.
- C. Look at the compute metrics UI to see if the executors have higher than 90% memory utilization.
- D. Run the notebook on a single node cluster to keep driver from falling.

Answer: A

Explanation:

Calling `df.collect()` on a large DataFrame forces all data to be loaded into the driver's memory.

With wide transformations and a cross join, this can easily exceed the driver's capacity, causing it to crash. The data engineer should rewrite the code to avoid collecting large datasets on the driver, using operations like `display(df)` or writing to storage instead.

NEW QUESTION # 207

A data engineer needs to capture pipeline settings from an existing in the workspace, and use them to create and version a JSON file to create a new pipeline. Which command should the data engineer enter in a web terminal configured with the Databricks CLI?

- A. Use `list pipelines` to get the specs for all pipelines; get the pipeline spec from the return results parse and use this to create a pipeline
- B. Stop the existing pipeline; use the returned settings in a `reset` command
- **C. Use the `get` command to capture the settings for the existing pipeline; remove the `pipeline_id` and rename the pipeline; use this in a `create` command**
- D. Use the `clone` command to create a copy of an existing pipeline; use the `get JSON` command to get the pipeline definition; save this to `git`

Answer: C

Explanation:

The Databricks CLI provides a way to automate interactions with Databricks services. When dealing with pipelines, you can use the `databricks pipelines get --pipeline-id` command to capture the settings of an existing pipeline in JSON format. This JSON can then be modified by removing the `pipeline_id` to prevent conflicts and renaming the pipeline to create a new pipeline. The modified JSON file can then be used with the `databricks pipelines create` command to create a new pipeline with those settings.

NEW QUESTION # 208

A data engineer needs to create an application that will collect information about the latest job run including the repair history. How should the data engineer format the request?

- A. Call `/api/2.1/jobs/runs/list` with the `run_id` and `include_history` parameters
- B. Call `/api/2.1/jobs/runs/get` with the `run_id` and `include_history` parameters

- C. Call/api/2.1/jobs/runs/get with the job_id and include_history parameters
- **D. Call/api/2.1/jobs/runs/list with the job_id and include_history parameters**

Answer: D

Explanation:

To retrieve information about the latest job runs along with their repair history, you use the jobs/runs/list endpoint with the job_id and include_history=true. This endpoint returns a list of runs for a specific job, including details about retries and repair attempts, which is not available via runs/get that retrieves a single run by run_id.

NEW QUESTION # 209

A data team is working to optimize an existing large, fast-growing table 'orders' with high cardinality columns, which experiences significant data skew and requires frequent concurrent writes. The team notice that the columns 'user_id', 'event_timestamp' and 'product_id' are heavily used in analytical queries and filters, although those keys may be subject to change in the future due to different business requirements. Which partitioning strategy should the team choose to optimize the table for immediate data skipping, incremental management over time, and flexibility?

- A. Cluster the table with: ALTER TABLE orders CLUSTER BY user_id, product_id, event_timestamp
- **B. Z-order the table with OPTIMIZE orders ZORDER BY (user_id, product_id, event_timestamp)**
- C. Partition the table with: ALTER TABLE orders PARTITION BY user_id, product_id, event_timestamp
- D. Use z-order after partitioning the table: OPTIMIZE orders ZORDER BY (user_id, product_id) WHERE event_timestamp = current date () - 1 DAY

Answer: B

Explanation:

Z-ordering optimizes data skipping for selective queries on high-cardinality columns without physically repartitioning the table, making it flexible if query patterns change. Using OPTIMIZE ...

ZORDER BY (user_id, product_id, event_timestamp) improves query performance for filters and joins while allowing incremental writes, avoiding the data skew and maintenance overhead that explicit partitioning or clustering could introduce.

NEW QUESTION # 210

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