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Databricks Certified Professional Data Engineer Exam Sample Questions (Q151-Q156):

NEW QUESTION # 151

Identify one of the below statements that can query a delta table in PySpark Dataframe API

- A. `Spark.read.table.delta("table_name")`
- B. `Spark.read.format("delta").LoadTableAs("table_name")`
- C. `Spark.read.table("table_name")`
- D. `Spark.read.format("delta").TableAs("table_name")`
- E. `Spark.read.mode("delta").table("table_name")`

Answer: C

NEW QUESTION # 152

The following table consists of items found in user carts within an e-commerce website.

```
Cartes (id LONG, items ARRAY<STRUCT<id: LONG, count: INT, email: STRING>>)
id items
1001[{"id": "DESK45", count: 1}, {"id": "M1", count: 2}] "u1@domain.com"
1002[{"id": "KITE45", count: 3}, {"id": "M1", count: 2}] "u2@domain.com"
1003[{"id": "KITE45", count: 3}, {"id": "M1", count: 2}] "u3@domain.com"
```

The following MERGE statement is used to update this table using an updates view, with schema evaluation enabled on this table.

```
MERGE INTO cartes c
USING updates u
ON c.id = u.id
WHEN MATCHED
THEN UPDATE SET *
```

How would the following update be handled?

```
(new nested field, missing existing column)
id items
1000[{"id": "DESK45", count: 1, coupons: "B00031"}]
```

How would the following update be handled?

- A. The new restored field is added to the target schema, and dynamically read as NULL for existing unmatched records.
- B. The update throws an error because changes to existing columns in the target schema are not supported.
- C. The new nested field is added to the target schema, and files underlying existing records are updated to include NULL values for the new field.
- D. The update is moved to separate "restored" column because it is missing a column expected in the target schema.

Answer: C

Explanation:

With schema evolution enabled in Databricks Delta tables, when a new field is added to a record through a MERGE operation, Databricks automatically modifies the table schema to include the new field. In existing records where this new field is not present, Databricks will insert NULL values for that field. This ensures that the schema remains consistent across all records in the table, with the new field being present in every record, even if it is NULL for records that did not originally include it.

References:

* Databricks documentation on schema evolution in Delta Lake: <https://docs.databricks.com/delta/delta-batch.html#schema->

evolution

NEW QUESTION # 153

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

Answer: A

Explanation:

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 # 154

A Structured Streaming job deployed to production has been resulting in higher than expected cloud storage costs. At present, during normal execution, each micro-batch of data is processed in less than 3 seconds; at least 12 times per minute, a micro-batch is processed that contains 0 records. The streaming write was configured using the default trigger settings. The production job is currently scheduled alongside many other Databricks jobs in a workspace with instance pools provisioned to reduce start-up time for jobs with batch execution. Holding all other variables constant and assuming records need to be processed in less than 10 minutes, which adjustment will meet the requirement?

- A. Set the trigger interval to 3 seconds; the default trigger interval is consuming too many records per batch, resulting in spill to disk that can increase volume costs.
- B. Set the trigger interval to 500 milliseconds; setting a small but non-zero trigger interval ensures that the source is not queried too frequently.
- C. Use the trigger once option and configure a Databricks job to execute the query every 10 minutes; this approach minimizes costs for both compute and storage.
- D. Set the trigger interval to 10 minutes; each batch calls APIs in the source storage account, so decreasing trigger frequency to the maximum allowable threshold should minimize this cost.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Exact extract: "If no trigger is specified, the default processing-time trigger runs micro-batches as fast as possible." Exact extract: "Trigger once processes all available data once and then stops." Exact extract: "Job clusters are created for a job run and terminate when the job completes." The default "as fast as possible" trigger creates many empty micro-batches which repeatedly list/query

cloud storage, inflating storage/metadata API costs. Switching to `trigger(once=True)` and scheduling the job to run every 10 minutes processes all available data in one batch, then stops. This both meets the <10-minute freshness requirement and minimizes compute (cluster can shut down between runs) and storage API calls (one batch per run instead of continual empty batches).
Reference:

NEW QUESTION # 155

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

- A. 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.
- **B. New files are identified by listing the input directory; new files are incrementally and idempotently loaded into the target Delta Lake table.**
- C. New files are identified by listing the input directory; the target table is materialized by directory querying all valid files in the source directory.
- D. 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.

Answer: B

Explanation:

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.

Reference:

Databricks Auto Loader Documentation: Auto Loader Guide

Delta Lake and Auto Loader: Delta Lake Integration

NEW QUESTION # 156

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