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Databricks Certified Professional Data Engineer Exam Sample Questions (Q148-Q153):

NEW QUESTION # 148

A new data engineer notices that a critical field was omitted from an application that writes its Kafka source to Delta Lake. This happened even though the critical field was in the Kafka source. That field was further missing from data written to dependent, long-term storage. The retention threshold on the Kafka service is seven days. The pipeline has been in production for three months. Which describes how Delta Lake can help to avoid data loss of this nature in the future?

- A. Delta Lake automatically checks that all fields present in the source data are included in the ingestion layer.
- B. The Delta log and Structured Streaming checkpoints record the full history of the Kafka producer.

- C. Ingesting all raw data and metadata from Kafka to a bronze Delta table creates a permanent, replayable history of the data state.
- D. Delta Lake schema evolution can retroactively calculate the correct value for newly added fields, as long as the data was in the original source.
- E. Data can never be permanently dropped or deleted from Delta Lake, so data loss is not possible under any circumstance.

Answer: C

Explanation:

Explanation

This is the correct answer because it describes how Delta Lake can help to avoid data loss of this nature in the future. By ingesting all raw data and metadata from Kafka to a bronze Delta table, Delta Lake creates a permanent, replayable history of the data state that can be used for recovery or reprocessing in case of errors or omissions in downstream applications or pipelines. Delta Lake also supports schema evolution, which allows adding new columns to existing tables without affecting existing queries or pipelines. Therefore, if a critical field was omitted from an application that writes its Kafka source to Delta Lake, it can be easily added later and the data can be reprocessed from the bronze table without losing any information. Verified References:

[Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "Delta Lake core features" section.

NEW QUESTION # 149

You are currently working on a notebook that will populate a reporting table for downstream process consumption, this process needs to run on a schedule every hour, what type of cluster are you going to use to set up this job?

- A. The job cluster is best suited for this purpose.
- B. Use Azure VM to read and write delta tables in Python
- C. Use delta live table pipeline to run in continuous mode
- D. Since it's just a single job and we need to run every hour, we can use an all-purpose cluster

Answer: A

Explanation:

Explanation

The answer is, The Job cluster is best suited for this purpose.

Since you don't need to interact with the notebook during the execution especially when it's a scheduled job, job cluster makes sense. Using an all-purpose cluster can be twice as expensive as a job cluster.

FYI,

When you run a job scheduler with option of creating a new cluster when the job is complete it terminates the cluster. You cannot restart a job cluster.

NEW QUESTION # 150

An upstream system is emitting change data capture (CDC) logs that are being written to a cloud object storage directory. Each record in the log indicates the change type (insert, update, or delete) and the values for each field after the change. The source table has a primary key identified by the field pk_id.

For auditing purposes, the data governance team wishes to maintain a full record of all values that have ever been valid in the source system. For analytical purposes, only the most recent value for each record needs to be recorded. The Databricks job to ingest these records occurs once per hour, but each individual record may have changed multiple times over the course of an hour.

Which solution meets these requirements?

- A. Create a separate history table for each pk_id and resolve the current state of the table by running a union all filtering the history tables for the most recent state.
- B. Use merge into to insert, update, or delete the most recent entry for each pk_id into a bronze table, then propagate all changes throughout the system
- C. Ingest all log information into a bronze table; use merge into to insert, update, or delete the most recent entry for each pk_id into a silver table to recreate the current table state.
- D. Iterate through an ordered set of changes to the table, applying each in turn; rely on Delta Lake's versioning ability to create an audit log.
- E. Use Delta Lake's change data feed to automatically process CDC data from an external system, propagating all changes to all dependent tables in the Lakehouse.

Answer: C

Explanation:

This is the correct answer because it meets the requirements of maintaining a full record of all values that have ever been valid in the source system and recreating the current table state with only the most recent value for each record. The code ingests all log information into a bronze table, which preserves the raw CDC data as it is. Then, it uses merge into to perform an upsert operation on a silver table, which means it will insert new records or update or delete existing records based on the change type and the pk_id columns. This way, the silver table will always reflect the current state of the source table, while the bronze table will keep the history of all changes. Verified Reference: [Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "Upsert into a table using merge" section.

NEW QUESTION # 151

Which of the following scenarios is the best fit for the AUTO LOADER solution?

- A. Incrementally process new data from relational databases like MySQL
- B. Efficiently copy data from data lake location to another data lake location
- C. Incrementally process new streaming data from Apache Kafka into delta lake
- D. **Efficiently process new data incrementally from cloud object storage**
- E. Efficiently move data incrementally from one delta table to another delta table

Answer: D

Explanation:

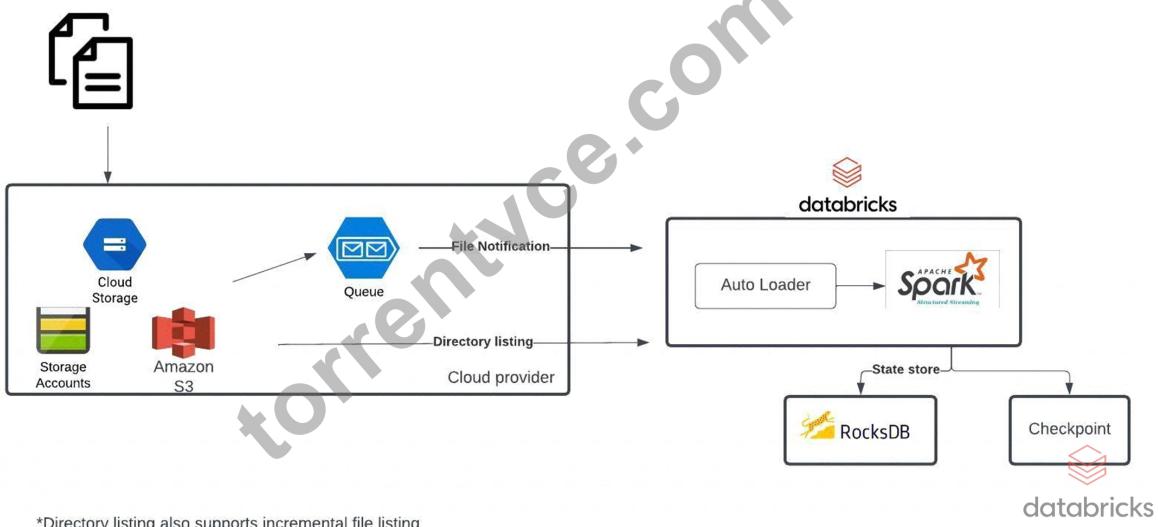
Explanation

The answer is, Efficiently process new data incrementally from cloud object storage.

Please note: AUTO LOADER only works on data/files located in cloud object storage like S3 or Azure Blob Storage it does not have the ability to read other data sources, although AUTO LOADER is built on top of structured streaming it only supports files in the cloud object storage. If you want to use Apache Kafka then you can just use structured streaming.

Diagram Description automatically generated

Auto Loader & Cloud Storage Integration



Auto Loader and Cloud Storage Integration

Auto Loader supports a couple of ways to ingest data incrementally

1. Directory listing - List Directory and maintain the state in RocksDB, supports incremental file listing
2. File notification - Uses a trigger+queue to store the file notification which can be later used to retrieve the file, unlike Directory listing File notification can scale up to millions of files per day.

[OPTIONAL]

Auto Loader vs COPY INTO?

Auto Loader

Auto Loader incrementally and efficiently processes new data files as they arrive in cloud storage without any additional setup. Auto

Loader provides a new Structured Streaming source called cloudFiles. Given an input directory path on the cloud file storage, the cloudFiles source automatically processes new files as they arrive, with the option of also processing existing files in that directory. When to use Auto Loader instead of the COPY INTO?

*You want to load data from a file location that contains files in the order of millions or higher. Auto Loader can discover files more efficiently than the COPY INTO SQL command and can split file processing into multiple batches.

*You do not plan to load subsets of previously uploaded files. With Auto Loader, it can be more difficult to reprocess subsets of files. However, you can use the COPY INTO SQL command to reload subsets of files while an Auto Loader stream is simultaneously running.

Refer to more documentation here,

<https://docs.microsoft.com/en-us/azure/databricks/ingestion/auto-loader>

NEW QUESTION # 152

A developer has successfully configured credential for Databricks Repos and cloned a remote Git repository.

Hey don not have privileges to make changes to the main branch, which is the only branch currently visible in their workspace.

Use Response to pull changes from the remote Git repository commit and push changes to a branch that appeared as a changes were pulled.

- A. Use repos to merge all difference and make a pull request back to the remote repository.
- B. Use repos to create a fork of the remote repository commit all changes and make a pull request on the source repository
- C. Use Repos to merge all differences and make a pull request back to the remote repository.
- D. Use Repos to create a new branch commit all changes and push changes to the remote Git repertory.

Answer: D

Explanation:

In Databricks Repos, when a user does not have privileges to make changes directly to the main branch of a cloned remote Git repository, the recommended approach is to create a new branch within the Databricks workspace. The developer can then make changes in this new branch, commit those changes, and push the new branch to the remote Git repository. This workflow allows for isolated development without affecting the main branch, enabling the developer to propose changes via a pull request from the new branch to the main branch in the remote repository. This method adheres to common Git collaboration workflows, fostering code review and collaboration while ensuring the integrity of the main branch.

References:

* Databricks documentation on using Repos with Git: <https://docs.databricks.com/repos.html>

NEW QUESTION # 153

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