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참고: Itcertkr에서 Google Drive로 공유하는 무료, 최신 Databricks-Certified-Professional-Data-Engineer 시험 문제집이 있습니다: <https://drive.google.com/open?id=1R9vEPSSym0e3gAVbzdOBEVxlwcGZROBqL>

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최신 Databricks Certification Databricks-Certified-Professional-Data-Engineer 무료샘플문제 (Q134-Q139):

질문 # 134

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

정답: C

설명:

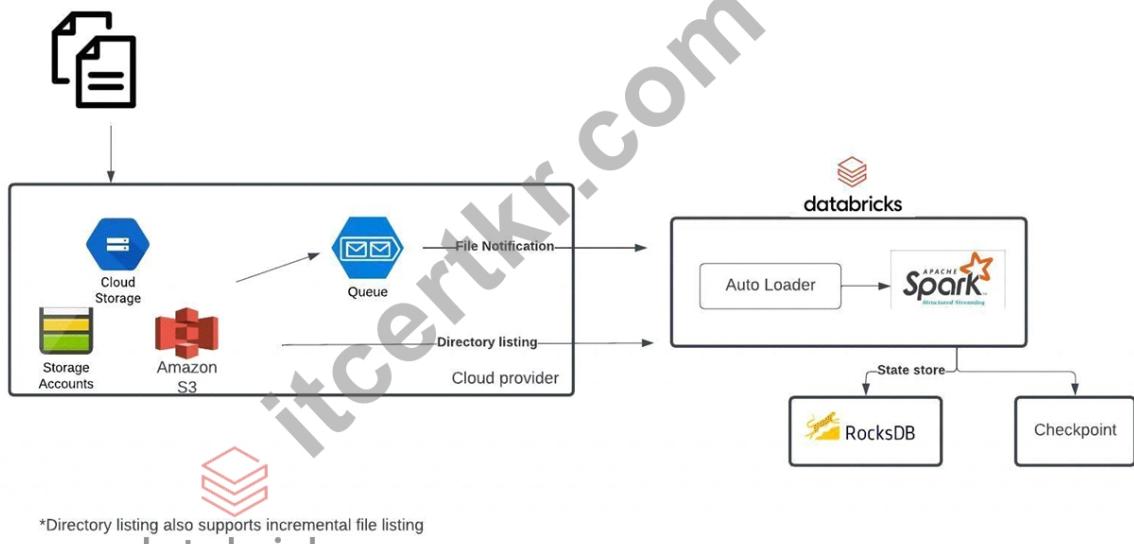
Explanation

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>

질문 # 135

A Delta Lake table with Change Data Feed (CDF) enabled in the Lakehouse named `customer_churn_params` is used in churn prediction by the machine learning team. The table contains information about customers derived from a number of upstream sources. Currently, the data engineering team populates this table nightly by overwriting the table with the current valid values derived from upstream data sources. The churn prediction model used by the ML team is fairly stable in production. The team is only interested in making predictions on records that have changed in the past 24 hours. Which approach would simplify the identification of these changed records?

- A. Apply the churn model to all rows in the customer_churn_params table, but implement logic to perform an upsert into the predictions table that ignores rows where predictions have not changed.
- B. Replace the current overwrite logic with a MERGE statement to modify only those records that have changed; write logic to make predictions on the changed records identified by the Change Data Feed.
- C. Modify the overwrite logic to include a field populated by calling current_timestamp() as data are being written; use this field to identify records written on a particular date.
- D. Convert the batch job to a Structured Streaming job using the complete output mode; configure a Structured Streaming job to read from the customer_churn_params table and incrementally predict against the churn model.

정답: B

설명:

Comprehensive and Detailed Explanation From Exact Extract:

Exact extract: "Change data feed (CDF) provides row-level change information for Delta tables." Exact extract: "Use table_changes to query the set of rows that were inserted, updated, or deleted between two versions (or timestamps)." Exact extract: "MERGE INTO updates and inserts only the rows that changed." Overwriting the table nightly makes it difficult to isolate just the changed rows. With CDF enabled, if you update the table using MERGE so only changed rows are touched, you can read exactly those changed rows from CDF for the last 24 hours and score only them, which is simpler and more efficient.

Reference:

질문 # 136

What is the main difference between the below two commands?

1. INSERT OVERWRITE table_name
2. SELECT * FROM table
1. CREATE OR REPLACE TABLE table_name
2. AS SELECT * FROM table

- A. Both are same and results in identical outcomes
- B. INSERT OVERWRITE maintains historical data versions by default, CREATE OR REPLACE clears the historical data versions by default
- C. INSERT OVERWRITE replaces data and schema by default, CREATE OR REPLACE replaces data by default
- D. **INSERT OVERWRITE replaces data by default, CREATE OR REPLACE replaces data and Schema by default**
- E. INSERT OVERWRITE clears historical data versions by default, CREATE OR REPLACE maintains the historical data versions by default

정답: D

설명:

Explanation

The main difference between INSERT OVERWRITE and CREATE OR REPLACE TABLE(CRAS) is that CRAS can modify the schema of the table, i.e. it can add new columns or change data types of existing columns. By default INSERT OVERWRITE only overwrites the data.

INSERT OVERWRITE can also be used to overwrite schema, only when

spark.databricks.delta.schema.autoMerge.enabled is set true if this option is not enabled and if there is a schema mismatch command will fail.

질문 # 137

A new data engineer new.engineer@company.com has been assigned to an ELT project. The new data engineer will need full privileges on the table sales to fully manage the project.

Which of the following commands can be used to grant full permissions on the table to the new data engineer?

- A. 1. GRANT SELECT CREATE MODIFY ON TABLE sales TO new.engineer@company.com;
- B. 1. GRANT SELECT ON TABLE sales TO new.engineer@company.com;
- C. 1. GRANT USAGE ON TABLE sales TO new.engineer@company.com;
- D. 1. GRANT ALL PRIVILEGES ON TABLE new.engineer@company.com TO sales;
- E. **1. GRANT ALL PRIVILEGES ON TABLE sales TO new.engineer@company.com;**

정답: E

질문 # 138

The data architect has mandated that all tables in the Lakehouse should be configured as external Delta Lake tables. Which approach will ensure that this requirement is met?

- A. When tables are created, make sure that the external keyword is used in the create table statement.
- B. Whenever a database is being created, make sure that the location keyword is used
- C. When configuring an external data warehouse for all table storage, leverage Databricks for all ELT.
- D. When the workspace is being configured, make sure that external cloud object storage has been mounted.
- E. Whenever a table is being created, make sure that the location keyword is used.

정답: E

질문 # 139

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