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Databricks Certified Professional Data Engineer Exam Sample Questions (Q104-Q109):

NEW QUESTION # 104

A table 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. Modify the overwrite logic to include a field populated by calling `spark.sql.functions.current_timestamp()` as data are being written; use this field to identify records written on a particular date.
- C. Calculate the difference between the previous model predictions and the current `customer_churn_params` on a key identifying unique customers before making new predictions; only make predictions on those customers not in the previous predictions.
- 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.
- E. 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.

Answer: E

Explanation:

Explanation

The approach that would simplify the identification of the changed records is to replace the current overwrite logic with a merge statement to modify only those records that have changed, and write logic to make predictions on the changed records identified by the change data feed. This approach leverages the Delta Lake features of merge and change data feed, which are designed to handle upserts and track row-level changes in a Delta table¹². By using merge, the data engineering team can avoid overwriting the entire table every night, and only update or insert the records that have changed in the source data. By using change data feed, the ML team can easily access the change events that have occurred in the `customer_churn_params` table, and filter them by operation type (update or insert) and timestamp. This way, they can only make predictions on the records that have changed in the past 24 hours, and avoid re-processing the unchanged records.

The other options are not as simple or efficient as the proposed approach, because:

Option A would require applying the churn model to all rows in the `customer_churn_params` table, which would be wasteful and redundant. It would also require implementing logic to perform an upsert into the predictions table, which would be more complex than using the merge statement.

Option B would require converting the batch job to a Structured Streaming job, which would involve changing the data ingestion and processing logic. It would also require using the complete output mode, which would output the entire result table every time there is a change in the source data, which would be inefficient and costly.

Option C would require calculating the difference between the previous model predictions and the current `customer_churn_params` on a key identifying unique customers, which would be computationally expensive and prone to errors. It would also require storing and accessing the previous predictions, which would add extra storage and I/O costs.

Option D would require modifying the overwrite logic to include a field populated by calling `spark.sql.functions.current_timestamp()` as data are being written, which would add extra complexity and overhead to the data engineering job. It would also require using this field to identify records written on a particular date, which would be less accurate and reliable than using the change data feed.

References: Merge, Change data feed

NEW QUESTION # 105

What is the purpose of the bronze layer in a Multi-hop architecture?

- A. Used as a data source for Machine learning applications.
- B. Can be used to eliminate duplicate records
- C. Provides efficient storage and querying of full unprocessed history of data
- D. Contains aggregated data that is to be consumed into Silver
- E. Perform data quality checks, corrupt data quarantined

Answer: C

Explanation:

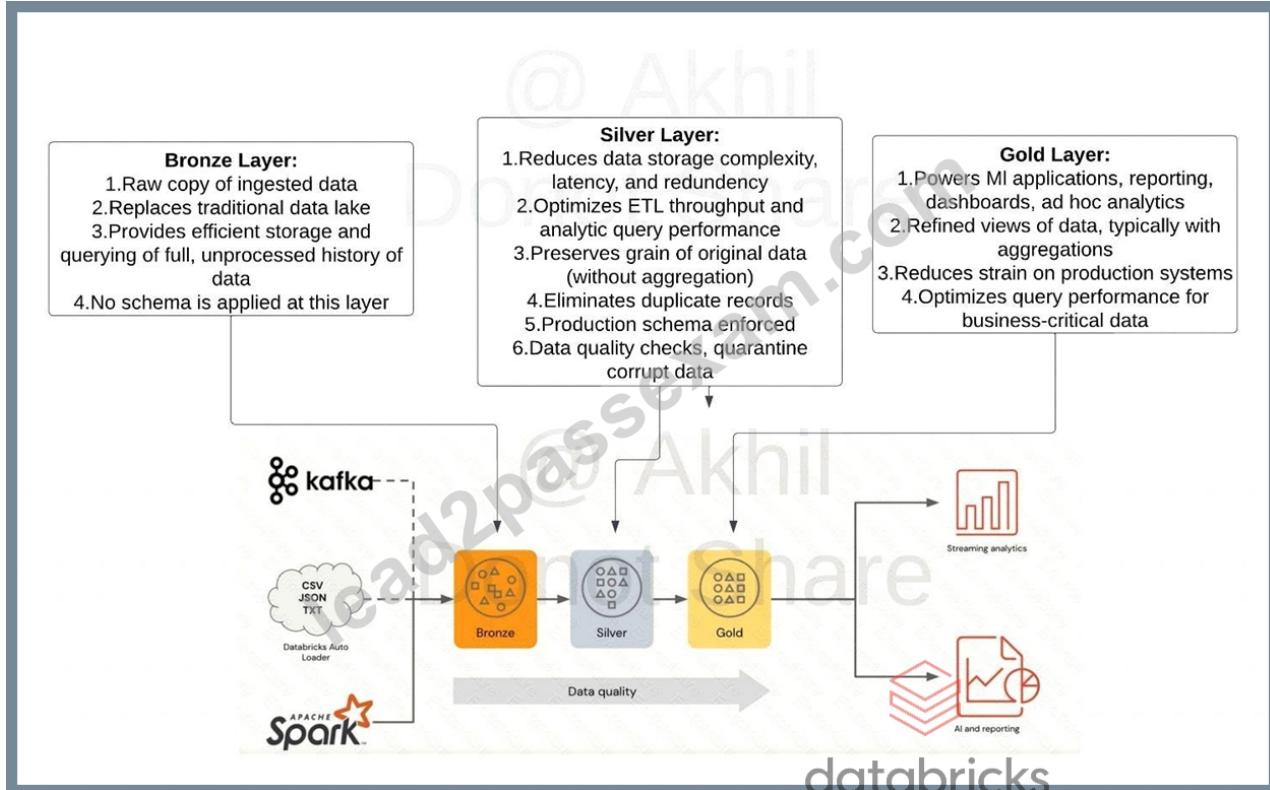
Explanation

The answer is Provides efficient storage and querying of full unprocessed history of data Medallion Architecture - Databricks Bronze Layer:

- 1.Raw copy of ingested data
- 2.Replaces traditional data lake
- 3.Provides efficient storage and querying of full, unprocessed history of data
- 4.No schema is applied at this layer

Exam focus: Please review the below image and understand the role of each layer(bronze, silver, gold) in medallion architecture, you will see varying questions targeting each layer and its purpose.

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NEW QUESTION # 106

A Databricks job has been configured with 3 tasks, each of which is a Databricks notebook. Task A does not depend on other tasks. Tasks B and C run in parallel, with each having a serial dependency on task A.

If tasks A and B complete successfully but task C fails during a scheduled run, which statement describes the resulting state?

- A. All logic expressed in the notebook associated with tasks A and B will have been successfully completed; any changes made in task C will be rolled back due to task failure.
- B. Because all tasks are managed as a dependency graph, no changes will be committed to the Lakehouse until all tasks have successfully been completed.
- C. Unless all tasks complete successfully, no changes will be committed to the Lakehouse; because task C failed, all commits will be rolled back automatically.
- D. All logic expressed in the notebook associated with task A will have been successfully completed; tasks B and C will not commit any changes because of stage failure.
- E. All logic expressed in the notebook associated with tasks A and B will have been successfully completed; some operations in task C may have completed successfully.

Answer: E

Explanation:

The query uses the CREATE TABLE USING DELTA syntax to create a Delta Lake table from an existing Parquet file stored in DBFS. The query also uses the LOCATION keyword to specify the path to the Parquet file as /mnt/finance_eda_bucket/tx_sales.parquet. By using the LOCATION keyword, the query creates an external table, which is a table that is stored outside of the default warehouse directory and whose metadata is not managed by Databricks. An external table can be created from an existing directory in a cloud storage system, such as DBFS or S3, that contains data files in a supported format, such as Parquet or CSV.

The resulting state after running the second command is that an external table will be created in the storage container mounted to /mnt/finance_eda_bucket with the new name prod.sales_by_store. The command will not change any data or move any files in the storage container; it will only update the table reference in the metastore and create a new Delta transaction log for the renamed table. Verified Reference: [Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "ALTER TABLE RENAME TO" section; Databricks Documentation, under "Create an external table" section.

NEW QUESTION # 107

The following code has been migrated to a Databricks notebook from a legacy workload:

```
%sh
git clone https://github.com/databricks/data_loader;
python ./data_loader/run.py;
mv ./output/dbfs/mnt/new_data
```

The code executes successfully and provides the logically correct results, however, it takes over 20 minutes to extract and load around 1 GB of data.

Which statement is a possible explanation for this behavior?

- A. %sh triggers a cluster restart to collect and install Git. Most of the latency is related to cluster startup time.
- B. Instead of cloning, the code should use %sh pip install so that the Python code can get executed in parallel across all nodes in a cluster.
- C. %sh executes shell code on the driver node. The code does not take advantage of the worker nodes or Databricks optimized Spark.
- D. %sh does not distribute file moving operations; the final line of code should be updated to use %fs instead.
- E. Python will always execute slower than Scala on Databricks. The run.py script should be refactored to Scala.

Answer: C

Explanation:

<https://www.databricks.com/blog/2020/08/31/introducing-the-databricks-web-terminal.html> The code is using %sh to execute shell code on the driver node. This means that the code is not taking advantage of the worker nodes or Databricks optimized Spark. This is why the code is taking longer to execute. A better approach would be to use Databricks libraries and APIs to read and write data from Git and DBFS, and to leverage the parallelism and performance of Spark. For example, you can use the Databricks Connect feature to run your Python code on a remote Databricks cluster, or you can use the Spark Git Connector to read data from Git repositories as Spark DataFrames.

NEW QUESTION # 108

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

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

Answer: B

Explanation:

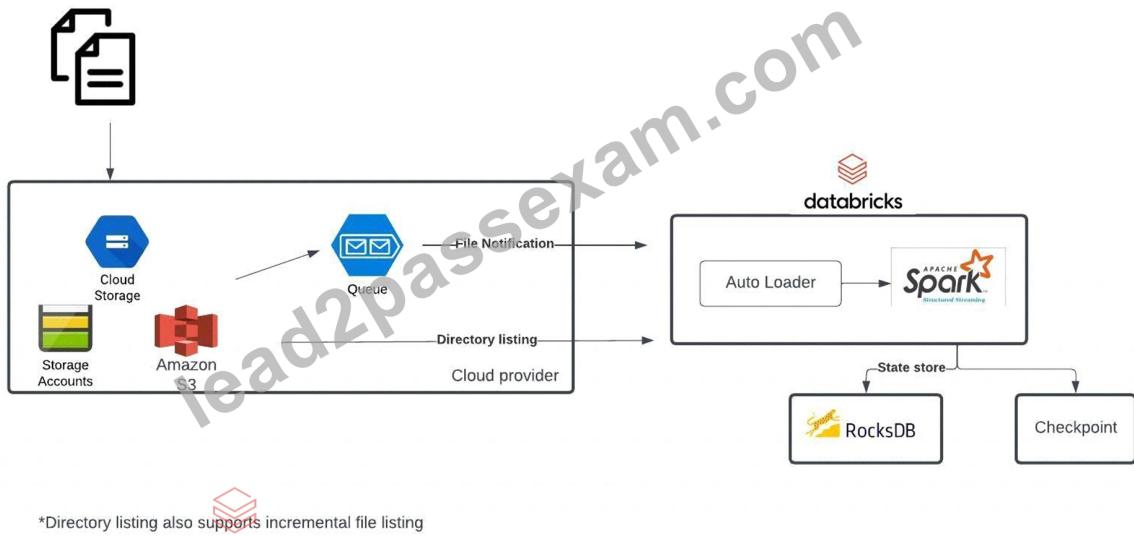
Explanation

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



databricks 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 # 109

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