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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q159-Q164):

NEW QUESTION # 159

A company receives .csv files that contain physical address data. The data is in columns that have the following names: Door_No, Street_Name, City, and Zip_Code. The company wants to create a single column to store these values in the following format:
Which solution will meet this requirement with the LEAST coding effort?

- A. Write a Lambda function in Python to read the files. Use the Python data dictionary type to create the new column.
- B. Use AWS Glue DataBrew to read the files. Use the NEST TO MAP transformation to create the new column.

- C. Use AWS Glue DataBrew to read the files. Use the NEST TO ARRAY transformation to create the new column.
- D. Use AWS Glue DataBrew to read the files. Use the PIVOT transformation to create the new column.

Answer: B

Explanation:
The NEST TO MAP transformation allows you to combine multiple columns into a single column that contains a JSON object with key-value pairs. This is the easiest way to achieve the desired format for the physical address data, as you can simply select the columns to nest and specify the keys for each column. The NEST TO ARRAY transformation creates a single column that contains an array of values, which is not the same as the JSON object format. The PIVOT transformation reshapes the data by creating new columns from unique values in a selected column, which is not applicable for this use case. Writing a Lambda function in Python requires more coding effort than using AWS Glue DataBrew, which provides a visual and interactive interface for data transformations. References:
7 most common data preparation transformations in AWS Glue DataBrew (Section: Nesting and unnesting columns) NEST TO MAP - AWS Glue DataBrew (Section: Syntax)

NEW QUESTION # 160
A company has as JSON file that contains personally identifiable information (PIT) data and non-PII data.
The company needs to make the data available for querying and analysis. The non-PII data must be available to everyone in the company. The PII data must be available only to a limited group of employees. Which solution will meet these requirements with the LEAST operational overhead?

- A. Store the JSON file in an Amazon S3 bucket. Configure AWS Glue to split the file into one file that contains the PII data and one file that contains the non-PII data. Store the output files in separate S3 buckets. Grant the required access to the buckets based on the type of user.
- B. Create two Amazon RDS PostgreSQL databases. Load the PII data and the non-PII data into the separate databases. Grant access to the databases based on the type of user.
- C. Store the JSON file in an Amazon S3 bucket. Use Amazon Macie to identify PII data and to grant access based on the type of user.
- D. Store the JSON file in an Amazon S3 bucket. Catalog the file schema in AWS Lake Formation. Use Lake Formation permissions to provide access to the required data based on the type of user.

Answer: D

NEW QUESTION # 161
A telecommunications company collects network usage data throughout each day at a rate of several thousand data points each second. The company runs an application to process the usage data in real time. The company aggregates and stores the data in an Amazon Aurora DB instance.
Sudden drops in network usage usually indicate a network outage. The company must be able to identify sudden drops in network usage so the company can take immediate remedial actions.
Which solution will meet this requirement with the LEAST latency?

- A. Create an AWS Lambda function within the Database Activity Streams feature of Aurora to detect drops in network usage.
- B. Replace the Aurora database with an Amazon DynamoDB table. Create an AWS Lambda function to query the DynamoDB table for drops in network usage every minute. Use DynamoDB Accelerator (DAX) between the processing application and DynamoDB table.
- C. Create an AWS Lambda function to query Aurora for drops in network usage. Use Amazon EventBridge to automatically invoke the Lambda function every minute.
- D. Modify the processing application to publish the data to an Amazon Kinesis data stream. Create an Amazon Managed Service for Apache Flink (previously known as Amazon Kinesis Data Analytics) application to detect drops in network usage.

Answer: D

Explanation:
The telecommunications company needs a low-latency solution to detect sudden drops in network usage from real-time data collected throughout the day.
* Option B: Modify the processing application to publish the data to an Amazon Kinesis data stream. Create an Amazon Managed

Service for Apache Flink (Amazon Kinesis Data Analytics) application to detect drops in network usage.Using Amazon Kinesis with Managed Service for Apache Flink (formerly Kinesis Data Analytics) is ideal for real-time stream processing with minimal latency. Flink can analyze the incoming data stream in real-time and detect anomalies, such as sudden drops in usage, which makes it the best fit for this scenario.

Other options (A, C, and D) either introduce unnecessary delays (e.g., querying databases) or do not provide the same real-time, low-latency processing that is critical for this use case.

References:

* Amazon Kinesis Data Analytics for Apache Flink

* Amazon Kinesis Documentation

NEW QUESTION # 162

A company receives .csv files that contain physical address dat

a. The data is in columns that have the following names: Door_No, Street_Name, City, and Zip_Code. The company wants to create a single column to store these values in the following format:

Which solution will meet this requirement with the LEAST coding effort?

- A. Write a Lambda function in Python to read the files. Use the Python data dictionary type to create the new column.
- B. Use AWS Glue DataBrew to read the files. Use the NEST TO MAP transformation to create the new column.
- C. Use AWS Glue DataBrew to read the files. Use the NEST TO ARRAY transformation to create the new column.
- D. Use AWS Glue DataBrew to read the files. Use the PIVOT transformation to create the new column.

Answer: B

Explanation:

The NEST TO MAP transformation allows you to combine multiple columns into a single column that contains a JSON object with key-value pairs. This is the easiest way to achieve the desired format for the physical address data, as you can simply select the columns to nest and specify the keys for each column. The NEST TO ARRAY transformation creates a single column that contains an array of values, which is not the same as the JSON object format. The PIVOT transformation reshapes the data by creating new columns from unique values in a selected column, which is not applicable for this use case. Writing a Lambda function in Python requires more coding effort than using AWS Glue DataBrew, which provides a visual and interactive interface for data transformations. Reference:

7 most common data preparation transformations in AWS Glue DataBrew (Section: Nesting and unnesting columns) NEST TO MAP - AWS Glue DataBrew (Section: Syntax)

NEW QUESTION # 163

A company stores Apache Parquet files in an Amazon S3 data lake. The data lake receives thousands of files from multiple sources every hour. The files range in size from 50 KB to 100 KB.

The company is evaluating the implementation of Apache Iceberg tables for the data lake. The company is using AWS Glue Data Catalog as part of the evaluation. The company needs a solution to optimize query performance in Iceberg. The solution must ensure that Iceberg table performance does not degrade when more files are added over time.

Which solution will meet these requirements?

- A. Configure Iceberg table properties to enable automatic compaction based on thresholds for file size and the number of files.
- B. Implement a partition strategy in Amazon S3. Run an AWS Glue crawler to update the Data Catalog every 5 minutes.
- C. Configure the Data Catalog to automatically compact the files every minute.
- D. Use an AWS Glue job to compact the files into a standard size of 512 MB at the end of each day. Run an AWS Glue crawler to update the Data Catalog.

Answer: A

Explanation:

Option C is correct because the main performance problem here is the large number of very small files. AWS Glue documentation explains that for Apache Iceberg tables, managed compaction reduces metadata overhead and improves read performance by compacting many small objects into larger ones. AWS Glue also provides table optimizers for Iceberg, and compaction can be configured to run automatically. This directly addresses the requirement that performance should not degrade as more files are added over time.

Option A could help somewhat, but it adds more operational work and the crawler step is unnecessary noise for this question. With Iceberg tables in the Glue Data Catalog, the better answer is the native automatic compaction capability rather than a manually

scheduled Glue job. Option B is incorrect because the Data Catalog does not simply compact files "every minute" by default; compaction is enabled and configured through the Iceberg table optimizer settings. Option D is insufficient because partitioning alone does not solve the small-files problem, and frequent crawler runs do not prevent long-term Iceberg degradation. The AWS- native, least-operations answer is to enable automatic compaction based on thresholds.

NEW QUESTION # 164

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