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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q125-Q130):

NEW QUESTION # 125

A company is developing machine learning (ML) models. A data engineer needs to apply data quality rules to training data. The company stores the training data in an Amazon S3 bucket.

- A. Create an AWS Lambda function to check data quality and to raise exceptions in the code.
- B. Create AWS Lambda functions to evaluate data quality rules and orchestrate with AWS Step Functions.
- C. Create an Amazon EMR provisioned cluster. Add a Python data quality package.
- D. Create an AWS Glue DataBrew project for the data in the S3 bucket. Create a ruleset for the data quality rules. Create a profile job to run the data quality rules. Use Amazon EventBridge to run the profile job when data is added to the S3 bucket.

Answer: D

Explanation:

AWS Glue DataBrew provides a no-code way to define and run data quality rulesets for data stored in S3.

You can trigger profiling jobs via Amazon EventBridge on new uploads for automated checks.

"Use AWS Glue DataBrew to define and run data quality rules on S3 datasets with minimal coding effort.

Automate validation by triggering jobs through EventBridge."

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NEW QUESTION # 126

A data engineer needs to use an Amazon QuickSight dashboard that is based on Amazon Athena queries on data that is stored in an Amazon S3 bucket. When the data engineer connects to the QuickSight dashboard, the data engineer receives an error message that indicates insufficient permissions.

Which factors could cause to the permissions-related errors? (Choose two.)

- A. QuickSight does not have access to the S3 bucket.
- B. There is no IAM role assigned to QuickSight.
- C. There is no connection between QuickSight and Athena.
- D. The Athena tables are not cataloged.
- E. QuickSight does not have access to decrypt S3 data.

Answer: A,E

Explanation:

QuickSight does not have access to the S3 bucket and QuickSight does not have access to decrypt S3 data are two possible factors that could cause the permissions-related errors. Amazon QuickSight is a business intelligence service that allows you to create and share interactive dashboards based on various data sources, including Amazon Athena. Amazon Athena is a serverless query service that allows you to analyze data stored in Amazon S3 using standard SQL. To use an Amazon QuickSight dashboard that is based on Amazon Athena queries on data that is stored in an Amazon S3 bucket, you need to grant QuickSight access to both Athena and S3, as well as any encryption keys that are used to encrypt the S3 data. If QuickSight does not have access to the S3 bucket or the encryption keys, it will not be able to read the data from Athena and display it on the dashboard, resulting in an error message that indicates insufficient permissions.

The other options are not factors that could cause the permissions-related errors. Option A, there is no connection between QuickSight and Athena, is not a factor, as QuickSight supports Athena as a native data source, and you can easily create a connection between them using the QuickSight console or the API. Option B, the Athena tables are not cataloged, is not a factor, as QuickSight can automatically discover the Athena tables that are cataloged in the AWS Glue Data Catalog, and you can also manually specify the Athena tables that are not cataloged. Option E, there is no IAM role assigned to QuickSight, is not a factor, as QuickSight requires an IAM role to access any AWS data sources, including Athena and S3, and you can create and assign an IAM role to QuickSight using the QuickSight console or the API. Reference:

Using Amazon Athena as a Data Source

Granting Amazon QuickSight Access to AWS Resources

Encrypting Data at Rest in Amazon S3

NEW QUESTION # 127

A company stores customer data in an Amazon S3 bucket. The company must permanently delete all customer data that is older than 7 years.

- A. Configure an S3 Lifecycle policy to move objects that are older than 7 years to S3 Glacier Deep Archive.
- B. Configure an S3 Lifecycle policy to enable S3 Object Lock on all objects that are older than 7 years.
- C. Use Amazon Athena to query the S3 bucket for objects that are older than 7 years. Configure Athena to delete the results.
- D. Configure an S3 Lifecycle policy to permanently delete objects that are older than 7 years.

Answer: D

Explanation:

S3 Lifecycle policies automate data retention and deletion. By specifying an expiration rule for 7 years, objects older than that period are permanently deleted without manual intervention.

"To automatically delete aged data, configure an S3 Lifecycle rule with an expiration policy for objects older than the retention period."

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NEW QUESTION # 128

A company needs to load customer data that comes from a third party into an Amazon Redshift data warehouse. The company stores order data and product data in the same data warehouse. The company wants to use the combined dataset to identify potential new customers.

A data engineer notices that one of the fields in the source data includes values that are in JSON format.

How should the data engineer load the JSON data into the data warehouse with the LEAST effort?

- A. Use an AWS Lambda function to flatten the JSON data. Store the data in Amazon S3.
- B. Use Amazon S3 to store the JSON data. Use Amazon Athena to query the data.
- C. Use AWS Glue to flatten the JSON data and ingest it into the Amazon Redshift table.
- D. Use the SUPER data type to store the data in the Amazon Redshift table.

Answer: D

Explanation:

In Amazon Redshift, the SUPER data type is designed specifically to handle semi-structured data like JSON, Parquet, ORC, and others. By using the SUPER data type, Redshift can ingest and query JSON data without requiring complex data flattening processes, thus reducing the amount of preprocessing required before loading the data. The SUPER data type also works seamlessly with Redshift Spectrum, enabling complex queries that can combine both structured and semi-structured datasets, which aligns with the company's need to use combined datasets to identify potential new customers.

Using the SUPER data type also allows for automatic parsing and query processing of nested data structures through Amazon Redshift's PARTITION BY and JSONPATH expressions, which makes this option the most efficient approach with the least effort involved. This reduces the overhead associated with using tools like AWS Glue or Lambda for data transformation.

Amazon Redshift Documentation - SUPER Data Type

AWS Certified Data Engineer - Associate Training: Building Batch Data Analytics Solutions on AWS AWS Certified Data Engineer - Associate Study Guide By directly leveraging the capabilities of Redshift with the SUPER data type, the data engineer ensures streamlined JSON ingestion with minimal effort while maintaining query efficiency.

NEW QUESTION # 129

A sales company uses AWS Glue ETL to collect, process, and ingest data into an Amazon S3 bucket. The AWS Glue pipeline creates a new file in the S3 bucket every hour. File sizes vary from 200 KB to 300 KB.

The company wants to build a sales prediction model by using data from the previous 5 years. The historic data includes 44,000 files.

The company builds a second AWS Glue ETL pipeline by using the smallest worker type. The second pipeline retrieves the historic files from the S3 bucket and processes the files for downstream analysis. The company notices significant performance issues with the second ETL pipeline.

The company needs to improve the performance of the second pipeline.

Which solution will meet this requirement MOST cost-effectively?

- A. Increase the number of workers in the AWS Glue ETL jobs.
- B. Use the AWS Glue DynamicFrame grouping option.
- C. Enable AWS Glue auto scaling.
- D. Use a larger worker type.

Answer: C

Explanation:

When processing many small files, the overhead of managing partitions can degrade performance. Rather than scaling workers manually, enabling AWS Glue auto scaling dynamically adjusts worker count based on resource requirements, which is cost-effective and addresses the performance concern.

"AWS Glue auto scaling automatically adds or removes workers based on the workload, which is efficient for handling performance bottlenecks when working with many small files."

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NEW QUESTION # 130

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