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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q278-Q283):

NEW QUESTION # 278

A company needs to build an extract, transform, and load (ETL) pipeline that has separate stages for batch data ingestion, transformation, and storage. The pipeline must store the transformed data in an Amazon S3 bucket. Each stage must automatically retry failures. The pipeline must provide visibility into the success or failure of individual stages.

Which solution will meet these requirements with the LEAST operational overhead?

- **A. Deploy AWS Step Functions workflows to orchestrate AWS Lambda functions that ingest data. Use AWS Glue jobs to transform the data and store the data in the S3 bucket.**
- B. Chain AWS Glue jobs that perform each stage together by using job triggers. Set the MaxRetries field to 0.
- C. Build an Amazon EventBridge-based pipeline that invokes AWS Lambda functions to perform each stage.

- D. Schedule Apache Airflow directed acyclic graphs (DAGs) on Amazon Managed Workflows for Apache Airflow (Amazon MWAA) to orchestrate pipeline steps. Use Amazon Simple Queue Service (Amazon SQS) to ingest data. Use AWS Glue jobs to transform data and store the data in the S3 bucket.

Answer: A

Explanation:

AWS Step Functions is a fully managed, serverless orchestration service designed to coordinate multiple AWS services into reliable workflows. Step Functions natively provide automatic retries, error handling, state-level visibility, and execution history, which directly satisfy the requirements for retry logic and monitoring individual pipeline stages.

In this solution, AWS Lambda functions are used for batch data ingestion, AWS Glue jobs handle transformation, and Amazon S3 is used for storage. Step Functions orchestrate these stages while maintaining clear separation of responsibilities. Each step can be configured with retry and catch policies, allowing the workflow to automatically recover from transient failures without manual intervention.

Chaining AWS Glue jobs alone does not provide detailed stage-level visibility or flexible retry control, and setting MaxRetries to 0 contradicts the retry requirement. EventBridge-based pipelines lack native workflow state tracking. Amazon MWAA introduces unnecessary operational overhead, including environment management and Airflow maintenance.

Therefore, using AWS Step Functions to orchestrate Lambda and Glue provides the most scalable, observable, and low-maintenance solution.

NEW QUESTION # 279

A data engineer is using Amazon Athena to analyze sales data that is in Amazon S3. The data engineer writes a query to retrieve sales amounts for 2023 for several products from a table named sales_data. However, the query does not return results for all of the products that are in the sales_data table. The data engineer needs to troubleshoot the query to resolve the issue.

The data engineer's original query is as follows:

```
SELECT product_name, sum(sales_amount)
FROM sales_data
WHERE year = 2023
GROUP BY product_name
```

How should the data engineer modify the Athena query to meet these requirements?

- A. Replace sum(sales amount) with count(*) for the aggregation.
- B. Remove the GROUP BY clause
- C. Add HAVING sum(sales amount) > 0 after the GROUP BY clause.
- D. Change WHERE year = 2023 to WHERE extract(year FROM sales_data) = 2023.

Answer: D

Explanation:

The original query does not return results for all of the products because the year column in the sales_data table is not an integer, but a timestamp. Therefore, the WHERE clause does not filter the data correctly, and only returns the products that have a null value for the year column. To fix this, the data engineer should use the extract function to extract the year from the timestamp and compare it with 2023. This way, the query will return the correct results for all of the products in the sales_data table. The other options are either incorrect or irrelevant, as they do not address the root cause of the issue. Replacing sum with count does not change the filtering condition, adding HAVING clause does not affect the grouping logic, and removing the GROUP BY clause does not solve the problem of missing products. References:

Troubleshooting JSON queries - Amazon Athena (Section: JSON related errors) When I query a table in Amazon Athena, the TIMESTAMP result is empty (Section: Resolution) AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide (Chapter 7, page 197)

NEW QUESTION # 280

A data engineer is building a new data pipeline that stores metadata in an Amazon DynamoDB table. The data engineer must ensure that all items that are older than a specified age are removed from the DynamoDB table daily.

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

- A. Add a lifecycle configuration to the DynamoDB table that deletes items that are older than the specified age.
- B. Create an Amazon EventBridge rule that uses a daily cron expression to trigger an AWS Lambda function to delete items that are older than the specified age.
- C. Enable DynamoDB TTL on the DynamoDB table. Adjust the application source code to set the TTL attribute

appropriately.

- D. Create a DynamoDB stream that has an AWS Lambda function that reacts to data modifications. Configure the Lambda function to delete items that are older than the specified age.

Answer: C

Explanation:

DynamoDB Time to Live (TTL) automatically expires and deletes items based on a timestamp attribute - it requires minimal setup and runs without additional infrastructure.

The engineer only needs to define a TTL attribute (e.g., `expiration_time`) and set its epoch value when items are inserted.

"To automatically delete old items from a DynamoDB table, enable TTL and define a timestamp attribute."

Items are removed automatically after the specified time with no extra maintenance."

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NEW QUESTION # 281

A company has a data processing pipeline that includes several dozen steps. The data processing pipeline needs to send alerts in real time when a step fails or succeeds. The data processing pipeline uses a combination of Amazon S3 buckets, AWS Lambda functions, and AWS Step Functions state machines.

A data engineer needs to create a solution to monitor the entire pipeline.

Which solution will meet these requirements?

- A. Configure the AWS Lambda functions to store notifications in an Amazon S3 bucket when the state machines finish running. Enable S3 event notifications on the S3 bucket.
- B. Configure the Step Functions state machines to store notifications in an Amazon S3 bucket when the state machines finish running. Enable S3 event notifications on the S3 bucket.
- C. Use AWS CloudTrail to send a message to an Amazon Simple Notification Service (Amazon SNS) topic that sends notifications when a state machine fails to run or succeeds to run.
- D. Configure an Amazon EventBridge rule to react when the execution status of a state machine changes. Configure the rule to send a message to an Amazon Simple Notification Service (Amazon SNS) topic that sends notifications.

Answer: D

Explanation:

AWS Step Functions natively emits state change events to Amazon EventBridge, which can trigger an Amazon SNS notification. This is the most direct and real-time way to alert on success/failure without relying on custom logging or polling.

"Step Functions automatically emits status changes that EventBridge can capture to trigger alerts or workflows. Use EventBridge to invoke an SNS topic for real-time alerts on job status."

- Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf This provides real-time alerting and the least operational overhead.

NEW QUESTION # 282

A company uses Amazon S3 buckets, AWS Glue tables, and Amazon Athena as components of a data lake. Recently, the company expanded its sales range to multiple new states. The company wants to introduce state names as a new partition to the existing S3 bucket, which is currently partitioned by date.

The company needs to ensure that additional partitions will not disrupt daily synchronization between the AWS Glue Data Catalog and the S3 buckets.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Schedule an AWS Glue crawler to periodically update the Data Catalog.
- B. Run a `REFRESH TABLE` command in Athena.
- C. Run an `MSCK REPAIR TABLE` command in Athena.
- D. Use the AWS Glue API to manually update the Data Catalog.

Answer: A

Explanation:

Scheduling an AWS Glue crawler to periodically update the Data Catalog automates the process of detecting new partitions and updating the catalog, which minimizes manual maintenance and operational overhead.

NEW QUESTION # 283

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