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## Snowflake DEA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Storage and Data Protection: The topic tests the implementation of data recovery features and the understanding of Snowflake's Time Travel and micro-partitions. Engineers are evaluated on their ability to create new environments through cloning and ensure data protection, highlighting essential skills for maintaining Snowflake data integrity and accessibility.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Security:</b> The Security topic of the DEA-C01 test covers the principles of Snowflake security, including the management of system roles and data governance. It measures the ability to secure data and ensure compliance with policies, crucial for maintaining secure data environments for Snowflake Data Engineers and Software Engineers.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Data Movement:</b> Snowflake Data Engineers and Software Engineers are assessed on their proficiency to load, ingest, and troubleshoot data in Snowflake. It evaluates skills in building continuous data pipelines, configuring connectors, and designing data sharing solutions.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Data Transformation:</b> The SnowPro Advanced: Data Engineer exam evaluates skills in using User-Defined Functions (UDFs), external functions, and stored procedures. It assesses the ability to handle semi-structured data and utilize Snowpark for transformations. This section ensures Snowflake engineers can effectively transform data within Snowflake environments, critical for data manipulation tasks.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Performance Optimization:</b> This topic assesses the ability to optimize and troubleshoot underperforming queries in Snowflake. Candidates must demonstrate knowledge in configuring optimal solutions, utilizing caching, and monitoring data pipelines. It focuses on ensuring engineers can enhance performance based on specific scenarios, crucial for Snowflake Data Engineers and Software Engineers.</li> </ul>

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### Snowflake SnowPro Advanced: Data Engineer Certification Exam Sample Questions (Q173-Q178):

#### NEW QUESTION # 173

An ecommerce company processes millions of orders each day. The company uses AWS Glue ETL to collect data from multiple sources, clean the data, and store the data in an Amazon S3 bucket in CSV format by using the S3 Standard storage class. The company uses the stored data to conduct daily analysis.

The company wants to optimize costs for data storage and retrieval.

Which solution will meet this requirement?

- A. Transition the data from Amazon S3 to an Amazon Aurora cluster.
- **B. Configure AWS Glue ETL to transform the incoming data to Apache Parquet format.**
- C. Transition the data to Amazon S3 Glacier Flexible Retrieval.
- D. Configure AWS Glue ETL to use Amazon EMR to process incoming data in parallel.

**Answer: B**

Explanation:

Converting the CSV files into Apache Parquet during your Glue ETL jobs dramatically reduces both storage size (because Parquet is a compressed, columnar format) and query cost (because analytics engines only scan the columns you need). This change requires no new infrastructure and pays off immediately for your daily analysis workloads.

#### NEW QUESTION # 174

A company has a business intelligence platform on AWS. The company uses an AWS Storage Gateway Amazon S3 File Gateway to transfer files from the company's on-premises environment to an Amazon S3 bucket.

A data engineer needs to setup a process that will automatically launch an AWS Glue workflow to run a series of AWS Glue jobs when each file transfer finishes successfully.

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

- A. Set up an AWS Lambda function that will invoke the AWS Glue Workflow. Set up an event for the creation of an S3 object as a trigger for the Lambda function.
- **B. Set up an Amazon EventBridge event that initiates the AWS Glue workflow after every successful S3 File Gateway file transfer event.**
- C. Set up an on-demand AWS Glue workflow so that the data engineer can start the AWS Glue workflow when each file transfer is complete.
- D. Determine when the file transfers usually finish based on previous successful file transfers. Set up an Amazon EventBridge scheduled event to initiate the AWS Glue jobs at that time of day.

**Answer: B**

Explanation:

Using EventBridge directly to trigger the AWS Glue workflow upon S3 events is straightforward and leverages AWS's event-driven architecture, requiring minimal maintenance.

### NEW QUESTION # 175

A company has a data lake in Amazon S3. The company collects AWS CloudTrail logs for multiple applications. The company stores the logs in the data lake, catalogs the logs in AWS Glue, and partitions the logs based on the year. The company uses Amazon Athena to analyze the logs.

Recently, customers reported that a query on one of the Athena tables did not return any data. A data engineer must resolve the issue.

Which combination of troubleshooting steps should the data engineer take? (Choose two.)

- **A. Confirm that Athena is pointing to the correct Amazon S3 location.**
- B. Increase the query timeout duration.
- C. Delete and recreate the problematic Athena table.
- **D. Use the MSCK REPAIR TABLE command.**
- E. Restart Athena.

**Answer: A,D**

Explanation:

One common issue could be that the table's S3 location is incorrect or has changed. The data engineer should check that the Athena table is correctly referencing the S3 bucket or path where the CloudTrail logs are stored.

If new partitions have been added to the S3 bucket (such as logs for a new year), but these partitions haven't been reflected in the Athena table, running the MSCK REPAIR TABLE command will load new partitions into the table's metadata, ensuring that Athena can query the new data.

A query timeout would not cause data to be missing from the results. This option does not address the issue of missing data in the query results.

Athena is a serverless query service, so there is no option to "restart" Athena. This is not applicable.

While deleting and recreating the table could resolve the issue, it's generally not necessary and is more disruptive. The problem can often be resolved with less intrusive steps like checking the S3 location and repairing partitions.

### NEW QUESTION # 176

A company adds new data to a large CSV file in an Amazon S3 bucket every day. The file contains company sales data from the previous 5 years. The file currently includes more than 5,000 rows. The CSV file structure is shown below with sample data:

The company needs to use Amazon Athena to run queries on the CSV file to fetch data from a specific time period.

Which solution will meet this requirement MOST cost-effectively?

- A. Write an Apache Spark script to convert the CSV data to JSON format. Create an AWS Glue job to run the script every day. Catalog the JSON data in AWS Glue. Run the Athena queries on the JSON data.
- **B. Use prefixes to partition the data in the S3 bucket. Use the SALE\_DATE column to create a partition for each day. Catalog the data in AWS Glue and ensure that the partitions are added. Update the Athena queries to use the new partitions.**
- C. Launch an Amazon EMR cluster. Specify AWS Glue Data Catalog as the default Apache Hive metastore. Use Presto in Trino to run queries on the data.

- D. Create an Amazon RDS database. Create a table named SALES that matches the schema of the CSV file. Create an index on the SALE\_DATE column. Create an AWS Lambda function to load the CSV data into the RDS database. Use S3 Event Notifications to invoke the Lambda function.

**Answer: B**

Explanation:

Partitioning the S3 data by SALE\_DATE (daily prefixes) lets Athena prune non-matching partitions so it scans only the requested time range, minimizing bytes scanned and cost while working directly on the existing CSVs. Cataloging the partitions in AWS Glue enables efficient querying with minimal operational overhead.

### NEW QUESTION # 177

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

**Answer: B**

Explanation:

<https://docs.aws.amazon.com/athena/latest/ug/select.html>

### NEW QUESTION # 178

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