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Snowflake SnowPro Advanced: Data Engineer Certification Exam Sample Questions (Q189-Q194):

NEW QUESTION # 189

Stuart, a Lead Data Engineer in MACRO Data Company created streams on set of External tables. He has been asked to extend the data retention period of the stream for 90 days, which parameter he can utilize to enable this extension?

- A. None of the above
- B. MAX_DATA_EXTENSION_TIME_IN_DAYS
- C. DATA_EXTENSION_TIME_IN_DAYS
- D. DATA_RETENTION_TIME_IN_DAYS

Answer: A

Explanation:

Explanation

External tables do not have data retention period applicable.

Good to Understand other Options available.

DATA_RETENTION_TIME_IN_DAYS

Type: Object (for databases, schemas, and tables) - Can be set for Account - Database - Schema - Table Description: Number of days for which Snowflake retains historical data for performing Time Travel actions (SELECT, CLONE, UNDROP) on the object. A value of 0 effectively disables Time Travel for the specified database, schema, or table.

Values:

0 or 1 (for Standard Edition)

0 to 90 (for Enterprise Edition or higher)

Default:

1

MAX_DATA_EXTENSION_TIME_IN_DAYS

Type: Object (for databases, schemas, and tables) - Can be set for Account - Database - Schema - Table Description: Maximum number of days for which Snowflake can extend the data retention period for tables to prevent streams on the tables from becoming stale. By default, if the DATA_RETENTION_TIME_IN_DAYS setting for a source table is less than 14 days, and a stream has not been consumed, Snowflake temporarily extends this period to the stream's offset, up to a maximum of 14 days, regardless of the Snowflake Edition for your account. The MAX_DATA_EXTENSION_TIME_IN_DAYS parameter enables you to limit this automatic extension period to control storage costs for data retention or for compliance reasons.

This parameter can be set at the account, database, schema, and table levels. Note that setting the parameter at the account or schema level only affects tables for which the parameter has not already been explicitly set at a lower level (e.g. at the table level by the table owner). A value of 0 effectively disables the automatic extension for the specified database, schema, or table.

Values:

0 to 90 (i.e. 90 days) - a value of 0 disables the automatic extension of the data retention period. To increase the maximum value for tables in your account, Client needs to contact Snowflake Support.

Default: 14

NEW QUESTION # 190

Mark the incorrect statement in case Data engineer using the COPY INTO <table> command to load data from files into Snowflake tables?

- A. For loading data from all semi-structured supported file formats (JSON, Avro, etc.), as well as unloading data, UTF-8 is the only supported character set.
- B. UTF-32 & UTF-16 both encoding character sets supported for loading data from delimited files (CSV, TSV, etc.)
- C. For Data loading of files with semi-structured file formats (JSON, Avro, etc.), the only supported character set is UTF-16.
- D. For Local environment, Files are first copied ("staged") to an internal (Snowflake) stage, then loaded into a table.

Answer: C

Explanation:

Explanation

For Data Loading of delimited files (CSV, TSV, etc.), the default character set is UTF-8. To use any other characters sets, you must explicitly specify the encoding to use for loading.

For semi-structured file formats (JSON, Avro, etc.), the only supported character set is UTF-8.

Rest of the statements are correct.

NEW QUESTION # 191

What is the primary purpose of data lineage in data engineering?

- A. To create visualizations.
- **B. To trace the source and flow of data.**
- C. To transform data formats.
- D. To optimize query performance.

Answer: B

NEW QUESTION # 192

A company uses Amazon Athena for one-time queries against data that is in Amazon S3. The company has several use cases. The company must implement permission controls to separate query processes and access to query history among users, teams, and applications that are in the same AWS account.

Which solution will meet these requirements?

- A. Create an IAM role for each use case. Assign appropriate permissions to the role for each use case. Associate the role with Athena.
- B. Create an S3 bucket for each use case. Create an S3 bucket policy that grants permissions to appropriate individual IAM users. Apply the S3 bucket policy to the S3 bucket.
- C. Create an AWS Glue Data Catalog resource policy that grants permissions to appropriate individual IAM users for each use case. Apply the resource policy to the specific tables that Athena uses.
- **D. Create an Athena workgroup for each use case. Apply tags to the workgroup. Create an IAM policy that uses the tags to apply appropriate permissions to the workgroup.**

Answer: D

Explanation:

<https://docs.aws.amazon.com/athena/latest/ug/user-created-workgroups.html>

NEW QUESTION # 193

A company uses AWS Glue Data Catalog to index data that is uploaded to an Amazon S3 bucket every day. The company uses a daily batch processes in an extract, transform, and load (ETL) pipeline to upload data from external sources into the S3 bucket. The company runs a daily report on the S3 data. Some days, the company runs the report before all the daily data has been uploaded to the S3 bucket. A data engineer must be able to send a message that identifies any incomplete data to an existing Amazon Simple Notification Service (Amazon SNS) topic.

Which solution will meet this requirement with the LEAST operational overhead?

- A. Create data quality checks for the source datasets that the daily reports use. Create a new AWS managed Apache Airflow cluster. Run the data quality checks by using Airflow tasks that run data quality queries on the columns data type and the presence of null values. Configure Airflow Directed Acyclic Graphs (DAGs) to send an email notification that informs the data engineer about the incomplete datasets to the SNS topic.
- B. Create AWS Lambda functions that run data quality queries on the columns data type and the presence of null values. Orchestrate the ETL pipeline by using an AWS Step Functions workflow that runs the Lambda functions. Configure the Step Functions workflow to send an email notification that informs the data engineer about the incomplete datasets to the SNS topic.
- C. Create data quality checks on the source datasets that the daily reports use. Create a new Amazon EMR cluster. Use Apache Spark SQL to create Apache Spark jobs in the EMR cluster that run data quality queries on the columns data type and the presence of null values. Orchestrate the ETL pipeline by using an AWS Step Functions workflow. Configure the workflow to send an email notification that informs the data engineer about the incomplete datasets to the SNS topic.
- **D. Create data quality checks on the source datasets that the daily reports use. Create data quality actions by using AWS Glue workflows to confirm the completeness and consistency of the datasets. Configure the data quality actions to create an event in Amazon EventBridge if a dataset is incomplete. Configure EventBridge to send the event that informs the data engineer about the incomplete datasets to the Amazon SNS topic.**

Answer: D

Explanation:

AWS Glue workflows and data quality actions allow for seamless integration with AWS Glue to ensure that data quality checks are

automatically performed after ETL jobs. This solution leverages the existing AWS Glue infrastructure and EventBridge to trigger notifications without needing complex orchestration tools like Apache Airflow or EMR, resulting in lower operational overhead. Amazon EventBridge can easily be configured to trigger a notification to Amazon SNS when a dataset is incomplete, providing a highly automated and low-maintenance solution.

Airflow requires managing a separate cluster and configuring Directed Acyclic Graphs (DAGs), which introduces more operational complexity and overhead than AWS Glue workflows.

Using Amazon EMR introduces unnecessary complexity and higher operational overhead, as it requires provisioning and managing a cluster for Spark jobs, which is more complex than using AWS Glue and EventBridge.

While Lambda can be a lightweight option, orchestrating Lambda functions for data quality checks with Step Functions adds unnecessary complexity when AWS Glue workflows already offer built-in capabilities for data quality actions with lower overhead.

NEW QUESTION # 194

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