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Snowflake DEA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	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.
Topic 2	Performance Optimization: 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.
Topic 3	Data Transformation: 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.
Topic 4	Security: 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.
Topic 5	Data Movement: 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.

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Snowflake SnowPro Advanced: Data Engineer Certification Exam Sample Questions (Q305-Q310):

NEW QUESTION # 305

A marketing company collects clickstream data. The company sends the clickstream data to Amazon Kinesis Data Firehose and stores the clickstream data in Amazon S3. The company wants to build a series of dashboards that hundreds of users from multiple departments will use.

The company will use Amazon QuickSight to develop the dashboards. The company wants a solution that can scale and provide daily updates about clickstream activity.

Which combination of steps will meet these requirements MOST cost-effectively? (Choose two.)

- A. Use Amazon Redshift to store and query the clickstream data.
- B. Access the query data through a QuickSight direct SQL query.
- C. Use Amazon Athena to query the clickstream data
- D. Access the query data through QuickSight SPICE (Super-fast, Parallel, In-memory Calculation Engine). Configure a daily refresh for the dataset.
- E. Use Amazon S3 analytics to query the clickstream data.

Answer: C,D

Explanation:

Athena would be cheaper than Redshift. S3 analytics is irrelevant. The functionality in SPICE should be more cost effective than direct SQL by reducing the frequency and volume of queries.

NEW QUESTION # 306

Snowflake computes and adds partitions based on the defined partition column expressions when an external table metadata is refreshed.

What are the Correct Statements to configure Partition metadata refresh in case of External Tables?

- A. The object owner can configure the metadata to refresh automatically when new or updated data files are available in the external stage.
- B. By default, the metadata is refreshed automatically when the object is created.
- C. Partitions of External tables is managed by External Stage Cloud provider.
- D. Metadata refresh is not required as its Managed implicitly by Snowflake.
- E. There is nothing like adding partitions on External tables.

Answer: A,B

Explanation:

Explanation

Snowflake strongly recommend partitioning your external tables, which requires that your underlying data is organized using logical paths that include date, time, country, or similar dimensions in the path.

Partitioning divides your external table data into multiple parts using partition columns.

An external table definition can include multiple partition columns, which impose a multi-dimensional structure on the external data.

Partitions are stored in the external table metadata.

Benefits of partitioning include improved query performance.

Because the external data is partitioned into separate slices/parts, query response time is faster when processing a small part of the data instead of scanning the entire data set.

Based on your individual use cases, you can either:

Add new partitions automatically by refreshing an external table that defines an expression for each partition column.

Add new partitions manually.

Partition columns are defined when an external table is created, using the CREATE EXTERNAL TABLE ...

PARTITION BY syntax.

After an external table is created, the method by which partitions are added cannot be changed.

Partitions Added Automatically

An external table creator defines partition columns in a new external table as expressions that parse the path and/or filename information stored in the METADATA\$FILENAME pseudocolumn.

A partition consists of all data files that match the path and/or filename in the expression for the partition column.

The CREATE EXTERNAL TABLE syntax for adding partitions automatically based on expressions is as follows:

CREATE EXTERNAL TABLE

<table_name>

(<part_col_name> <col_type> AS <part_expr>)

[, ...]

[PARTITION BY (<part_col_name> [, <part_col_name> ...])]

Snowflake computes and adds partitions based on the defined partition column expressions when an external table metadata is refreshed.

By default, the metadata is refreshed automatically when the object is created.

In addition, the object owner can configure the metadata to refresh automatically when new or up-dated data files are available in the external stage.

The owner can alternatively refresh the metadata manually by executing the ALTER EXTERNAL TABLE ...

REFRESH command.

The metadata for an external table can be refreshed automatically using the event notification service for your cloud storage service.

NEW QUESTION # 307

A data engineer runs Amazon Athena queries on data that is in an Amazon S3 bucket. The Athena queries use AWS Glue Data Catalog as a metadata table.

The data engineer notices that the Athena query plans are experiencing a performance bottleneck. The data engineer determines that the cause of the performance bottleneck is the large number of partitions that are in the S3 bucket. The data engineer must resolve the performance bottleneck and reduce Athena query planning time.

Which solutions will meet these requirements? (Choose two.)

- A. Transform the data that is in the S3 bucket to Apache Parquet format.
- B. Use the Amazon EMR S3DistCP utility to combine smaller objects in the S3 bucket into larger objects.
- C. Create an AWS Glue partition index. Enable partition filtering.
- D. Bucket the data based on a column that the data have in common in a WHERE clause of the user query.
- E. Use Athena partition projection based on the S3 bucket prefix.

Answer: C,E

Explanation:

<https://aws.amazon.com/blogs/big-data/top-10-performance-tuning-tips-for-amazon-athena/> Optimizing Partition Processing using partition projection Processing partition information can be a bottleneck for Athena queries when you have a very large number of partitions and aren't using AWS Glue partition indexing. You can use partition projection in Athena to speed up query processing of highly partitioned tables and automate partition management. Partition projection helps minimize this overhead by allowing you to query partitions by calculating partition information rather than retrieving it from a metastore. It eliminates the need to add partitions' metadata to the AWS Glue table.

NEW QUESTION # 308

If external software i.e. TIBCO, exports Data fields enclosed in quotes but inserts a leading space before the opening quotation character for each field, How Snowflake handle it? [Select 2]

- A. COPY command trims the leading space and removes the quotation marks enclosing each field
1.copy into SFTable
2.from @%SFTable
3.file_format = (type = csv trim_space=true field_optionally_enclosed_by = '0x22');
- B. Snowflake automatically handles leading spaces by trimming implicitly & removes the quotation marks enclosing each field.
- C. Snowflake reads the leading space rather than the opening quotation character as the beginning of the field and the

quotation characters are interpreted as string data.

(Correct)

- D. field_optionally_enclosed_by option along with TRIM_IF function in COPY INTO statement can be used to handle this scenario successfully.

Answer: A

Explanation:

Explanation

If your external software exports fields enclosed in quotes but inserts a leading space before the opening quotation character for each field, Snowflake reads the leading space rather than the opening quotation character as the beginning of the field. The quotation characters are interpreted as string data.

Use the TRIM_SPACE file format option to remove undesirable spaces during the data load.

NEW QUESTION # 309

A secure function returns data coming through an inbound share

What will happen if a Data Engineer tries to assign usage privileges on this function to an outbound share?

- A. The Engineer will be able to share the secure function with other accounts
- B. An error will be returned because only secure functions can be shared with inbound shares
- C. An error will be returned because only views and secure stored procedures can be shared
- D. An error will be returned because the Engineer cannot share data that has already been shared

Answer: D

Explanation:

Explanation

An error will be returned because the Engineer cannot share data that has already been shared. A secure function is a Snowflake function that can access data from an inbound share, which is a share that is created by another account and consumed by the current account. A secure function can only be shared with an inbound share, not an outbound share, which is a share that is created by the current account and shared with other accounts. This is to prevent data leakage or unauthorized access to the data from the inbound share.

NEW QUESTION # 310

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