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Snowflake COF-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Define the entities and roles that are used in Snowflake• Outline data governance capabilities in Snowflake
Topic 2	<ul style="list-style-type: none">• Outline different commands used to load data and when they should be used• Define concepts and best practices that should be considered when unloading data
Topic 3	<ul style="list-style-type: none">• Key features of the Snowflake Cloud Data Platform• Account Access and Security
Topic 4	<ul style="list-style-type: none">• Outline virtual warehouse performance tools• Adhoc• bulk loading using the Snowflake UI
Topic 5	<ul style="list-style-type: none">• Define concepts and best practices that should be considered when loading data• Explain role hierarchy and privilege inheritance
Topic 6	<ul style="list-style-type: none">• Snowflake's catalog and objects• User-Defined Functions (UDFs) and User Defined Table Functions (UDTFs)

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Quiz 2025 Snowflake DEA-C02: Professional SnowPro Advanced: Data Engineer (DEA-C02) Valid Test Cram

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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q138-Q143):

NEW QUESTION # 138

Given the following scenario: You have an external table 'EXT SALES' in Snowflake pointing to a data lake in Azure Blob Storage. The storage account network rules are configured to only allow specific IP addresses and virtual network subnets, enhancing security. You are getting intermittent errors when querying 'EXT SALES'. Which of the following could be the cause(s) and the corresponding solution(s)? Select all that apply.

- A. The table function cache is stale, causing access to non-existent files. Solution: Run 'ALTER EXTERNAL TABLE EXT_SALES REFRESH'.
- B. The network connectivity between Snowflake and Azure Blob Storage is unstable. Solution: Implement retry logic in your queries to handle transient network errors.
- C. The Snowflake IP addresses used to access the Azure Blob Storage are not whitelisted in the storage account's firewall settings. Solution: Obtain the Snowflake IP address ranges for your region and add them to the storage account's allowed IP addresses.
- D. The file format specified in the external table definition does not match the actual format of the files in Azure Blob Storage. Solution: Update the 'FILE_FORMAT' parameter in the external table definition to match the correct file format.
- E. The Snowflake service principal does not have the correct permissions on the Azure Blob Storage account. Solution: Ensure the Snowflake service principal has the 'Storage Blob Data Reader' role assigned to it.

Answer: C,E

Explanation:

Options A and C are the most likely causes. Network restrictions often lead to connectivity issues if Snowflake's IP addresses are not whitelisted (A). Incorrect permissions for the Snowflake service principal (C) will also prevent access to the data lake. Option B is relevant if there are issues around schema changes or new files added. Option D will cause errors all the time not intermittently. Option E Snowflake automatically retries some queries. In a secure environment where IP whitelisting is mandated and IAM roles are properly configured, intermittent failures suggest a permission or a networking issue.

NEW QUESTION # 139

A data engineer is investigating high credit consumption on a Snowflake warehouse due to frequent re-clustering operations on a large table named 'WEB EVENTS'. This table is clustered on 'EVENT TIMESTAMP' and 'USER ID'. The engineer suspects that the high frequency of data ingestion, especially out-of-order 'EVENT TIMESTAMP' values, contributes to the poor clustering. Choose the options that can lead to optimizing clustering and reducing credit consumption, assuming you have limited control over the ingestion process and data quality.

- A. Implement a pre-processing stage to sort the incoming data by 'EVENT TIMESTAMP' before loading it into the 'WEB EVENTS' table, using a temporary table and then inserting into the final table.
- B. Partition the table based on 'EVENT _TIMESTAMP' instead of clustering.
- C. Implement a maintenance task to periodically re-cluster the table less frequently, but at more strategically chosen times (e.g., during off-peak hours).
- D. Increase the warehouse size to accelerate the re-clustering process.
- E. Drop the clustering key altogether to avoid re-clustering costs.

Answer: A,C

Explanation:

Options B and E are the best choices. Option B reduces the re-clustering frequency at off-peak hours and optimizes costs. Option E pre-sorts the data before loading, which leads to better clustering during initial data load. Clustering would be more optimal since the data is ingested into the final table. Option A only speeds up the process but doesn't fundamentally address the root cause (out-of-order data). Option C would hurt query performance, since queries are based on order. Option D, partitioning is not a native concept in snowflake, and is often confused with clustering. If the table has a partition expression, then the pruning could improve performance. However in the context of problem of reducing the cost with frequent reclustering from out of order ingestion, it would not reduce the cost since reclustering would be same.

NEW QUESTION # 140

A data engineering team is using Snowflake's data lineage features, and they need to audit changes to data masking policies applied to a table named 'EMPLOYEES'. They want to identify when a masking policy was added, modified, or removed from specific columns.

What are the recommended Snowflake features or audit logs that the data engineering team could use to get these requirements?

- A. The Account Usage view 'POLICY REFERENCES' coupled with 'QUERY HISTORY', filtering for 'ALTER TABLE MODIFY COLUMN SET MASKING POLICY' statements and also comparing snapshots of the 'POLICY REFERENCES' view over time.
- B. Snowflake event tables provide complete audit trail capabilities. These tables capture all the events including policies.
- C. The 'OBJECT DEPENDENCIES' view in the ACCOUNT USAGE schema will directly track changes related to masking policies applied to tables since that is the best place for lineage information.
- D. Snowflake's native Data Lineage feature automatically captures all changes to data masking policies without any additional configuration, and those changes are then available to the data steward through the user interface.
- E. The 'INFORMATION SCHEMA.POLICY REFERENCES' view to determine what masking policies are currently in place. Then, combine that with the use of Snowflake's Alerting framework to get notified on the creation/removal of tables, and also on changes on the masking policies via SYSTEM\$GET_PRIVILEGES() function.

Answer: A

Explanation:

The most effective method to audit changes is to combine , showing the current policy assignments, with the 'QUERY HISTORY' to identify when those assignments were changed. Specifically, looking for 'ALTER TABLE ... MODIFY COLUMN ... SET MASKING POLICY' statements in the 'QUERY_HISTORY' will pinpoint the exact changes. Periodically comparing snapshots of 'POLICY_REFERENCES' allows you to see which policies were added or removed. Account Usage views track object dependencies, but don't directly show historical changes to policy assignments. Data Lineage focuses on data flow, not policy change auditing. Though has value, it is more appropriate to combine with 'QUERY_HISTORY' since it displays the current masking policies, but will not capture the audit information required without 'QUERY HISTORY' and snapshots.

NEW QUESTION # 141

A large e-commerce company uses Snowflake to store website clickstream data in a table named 'WEB_EVENTS'. This table is partitioned using the 'EVENT_DATE' column. The company needs to analyze user behavior across different devices. A common query involves joining 'WEB_EVENTS' with a smaller 'USER_DEVICES' table (containing user-to-device mappings) to determine the device type for each event. However, the performance of this join operation is poor, especially when filtering 'WEB_EVENTS' by a specific date range. The 'USER_DEVICES' table is small enough to fit in memory. What is the most effective approach to optimize this query for performance?

- A. Broadcast the 'USER_DEVICES' table to all compute nodes before performing the join. (Hint: Consider using 'BROADCAST' hint)
- B. Create a materialized view that pre-joins 'WEB_EVENTS' and 'USER_DEVICES' tables without filtering
- C. Convert the 'WEB_EVENTS' table to use a VARIANT data type and query with JSON path expressions.
- D. Use a standard 'JOIN' operation between 'WEB_EVENTS' and 'USER_DEVICES' without any modifications.
- E. Use a 'LATERAL FLATTEN' function to process the data in parallel.

Answer: A

Explanation:

Since the 'USER_DEVICES' table is small, broadcasting it to all compute nodes allows Snowflake to perform a local join, avoiding network transfers and significantly improving performance. Using the 'BROADCAST' hint will make use of this functionality. Standard join will not be efficient. 'LATERAL FLATTEN' is for semi-structured data. While Materialized views improves performance, here Broadcasting is the most cost effective. Using VARIANT data type and JSON path expression slows down the query.

NEW QUESTION # 142

You are developing a data pipeline in Snowflake that uses SQL UDFs for data transformation. You need to define a UDF that calculates the Haversine distance between two geographical points (latitude and longitude). Performance is critical. Which of the following approaches would result in the most efficient UDF implementation, considering Snowflake's execution model?

- A. Create a SQL UDF that pre-calculates the RADIANS for latitude and longitude only once and stores them in a temporary table, using those values for subsequent distance calculations within the same session.
- B. Create an External Function (using AWS Lambda or Azure Functions) to calculate the Haversine distance. This allows for offloading the computation to a separate compute environment.
- C. Create a SQL UDF that directly calculates the Haversine distance using Snowflake's built-in mathematical functions (SIN, COS, ACOS, RADIANS). This is straightforward and easy to implement.
- D. Create a SQL UDF leveraging Snowflake's VECTORIZED keyword, hoping to automatically leverage SIMD instructions, without any code changes to mathematical calculation inside the UDF
- E. Create a Java UDF that calculates the Haversine distance, leveraging optimized mathematical libraries. This allows for potentially faster execution due to lower-level optimizations.

Answer: C

Explanation:

SQL UDFs are generally the most efficient for simple calculations within Snowflake because they are executed within the Snowflake engine, minimizing data movement and overhead. While Java UDFs (option B) can offer optimizations, the overhead of invoking the Java environment often outweighs the benefits for this type of calculation. External Functions (option C) introduce significant latency due to network communication. Option D provides temporary performance improvements for the specific session, but is not the most efficient general solution. Vectorized keyword doesn't exist in Snowflake to create UDFs, Hence it won't allow compilation. This question's emphasis is on understanding the trade-offs between different UDF types and their performance implications within the Snowflake architecture.

NEW QUESTION # 143

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