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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q282-Q287):

NEW QUESTION # 282

Which of the following statements are accurate regarding the differences between SQL UDFs and Java UDFs in Snowflake? (Select two)

- A. Java UDFs always execute faster than SQL UDFs due to JVM optimizations.
- B. SQL UDFs and Java UDFs are interchangeable, and there is no performance difference between them.
- C. Java UDFs are deprecated and should not be used; instead, SQL UDFs are recommended for all scenarios.
- D. SQL UDFs are defined using SQL code within Snowflake, whereas Java UDFs require uploading a JAR file containing the compiled Java code.
- E. SQL UDFs can only be used for simple transformations and cannot execute external calls, while Java UDFs can perform complex logic and interact with external services via libraries.

Answer: D,E

Explanation:

SQL UDFs are suitable for simpler transformations within Snowflake and cannot make external calls. They are defined directly using SQL code. Java UDFs, on the other hand, offer more flexibility by allowing complex logic implementation, interaction with external services/libraries via JAR files, and custom code. Java UDFs generally perform better when complex transformations are needed, where SQL UDFs can become cumbersome. Performance depends on the workload. Option B is wrong because SQL UDFs are more performant for simpler tasks. Option D is wrong because it is highly dependant on workload, where options E is wrong as Java UDFs are very useful and not deprecated.

NEW QUESTION # 283

Your company is implementing data governance policies in Snowflake and wants to automatically classify data to track Personally Identifiable Information (PII). You have defined a classification policy with a tag 'PII' and associated tag values like 'Email', 'CreditCard', and 'SSN'. You want to monitor the usage of PII data. Which of the following approaches is the MOST efficient way to track access and modifications to columns tagged with the 'PII' tag and any of its tag values?

- A. Use Snowflake's native data governance capabilities in conjunction with Snowflake Horizon to actively monitor data quality and access patterns, specifically focusing on PII-tagged columns.
- B. Create a scheduled task to query the INFORMATION SCHEMCOLUMNS view and filter based on the TAG DATABASE, TAG SCHEMA, and TAG NAME columns to identify PII columns, then query the QUERY_HISTORY view and filter based on the identified column names.
- C. Enable Snowflake's data governance features, including object tagging and data classification. Then, leverage the ACCESS HISTORY view, filtering based on POLICY _ TAGS. This will show all accesses to data tagged as PII.
- D. Implement a custom UDF that intercepts all queries. Inside the UDF, check if any of the accessed tables or columns are tagged with 'PII', and log those queries into a separate logging table for monitoring.
- E. Create a masking policy that redacts all PII data. Monitor access attempts via the ACCESS HISTORY view. Although it hinders data usability, this approach guarantees no PII data leakage and allows easy monitoring.

Answer: C

Explanation:

The ACCESS HISTORY view, when combined with Snowflake's object tagging and data classification features, provides the MOST efficient way to monitor access to data tagged with specific tags like 'PII'. Filtering based on POLICY _ TAGS allows you to quickly identify accesses related to PII data. Option A is less efficient due to the need for continuous polling and parsing potentially large query histories. Option B excessively restricts data usability. Option D incurs significant overhead and maintenance costs. Option E, while involving Horizon, doesn't primarily rely on Horizon for access monitoring of tagged data; Horizon is more

aligned with data discovery and cataloging.

NEW QUESTION # 284

You have a data pipeline that aggregates web server logs hourly. The pipeline loads data into a Snowflake table 'WEB LOGS' which is partitioned by 'event_time'. You notice that queries against this table are slow, especially those that filter on specific time ranges. Analyze the following Snowflake table definition and query pattern and select the options to diagnose and fix the performance issue: Table Definition:

- A. Create a materialized view that pre-aggregates the 'status_code' by hour to speed up the aggregation query.
- B. Add a search optimization strategy to the table on the 'event_time' column.
- C. Change the table to use clustering on 'event_time' instead of partitioning to improve query performance for range filters.
- D. The table is already partitioned by 'event_time', so there is no need for further optimization.
- E. Increase the warehouse size to improve query performance.

Answer: A,B,C

Explanation:

Partitioning in Snowflake is primarily for data management and micro-partition elimination on exact matches, not range queries. Clustering (B) reorders the data for better performance with range-based queries. A materialized view (C) pre-computes the aggregation, significantly speeding up the specific query. A search optimization strategy (E) can improve performance without requiring a full table scan. Increasing warehouse size (D) may help to some extent but is not the most targeted optimization. Option A is incorrect because partitioning alone doesn't solve the range query performance issue.

NEW QUESTION # 285

Your company utilizes Snowflake Streams and Tasks for continuous data ingestion and transformation. A critical task, 'TRANSFORM DATA', consumes data from a stream 'RAW DATA STREAW on table 'RAW DATA' and loads it into a reporting table 'REPORTING TABLE. You observe that 'TRANSFORM DATA' is failing intermittently with a 'Stream is stale' error. What steps can you take to diagnose and resolve this issue? Choose all that apply.

- A. Increase the parameter at the database level to ensure Time Travel data is available for a longer period.
- B. Modify the task definition to use the 'WHEN' condition to prevent execution when the stream is empty.
- C. Drop and recreate the stream and task to reset their states.
- D. Ensure that the 'TRANSFORM DATA' task is consuming the stream data frequently enough to prevent the stream from becoming stale.
- E. Use the 'AT' or 'BEFORE' clause when querying the stream to explicitly specify a point in time to consume data from.

Answer: A,D

Explanation:

Option A is correct: Increasing will ensure that Time Travel has sufficient history, preventing the stream from becoming stale if the task is delayed. Option C is correct: Ensuring frequent consumption of the stream prevents it from exceeding the data retention period. Option B may prevent the task from running, but doesn't address the root cause of the staleness, option D will fix the problem. Option E is a drastic measure and should only be considered as a last resort.

NEW QUESTION # 286

A data engineer notices that a daily ETL job loading data into a Snowflake table 'TRANSACTIONS' is consistently taking longer than expected. The table is append-only and partitioned by 'TRANSACTION DATE. The engineer observes high 'Remote Spill' during the load process and suspect that micro-partition pruning isn't working effectively. Which of the following approaches would BEST address the performance issue, assuming you have already considered increasing warehouse size?

- A. Re-create the 'TRANSACTIONS' table with a larger virtual warehouse and re-load the entire dataset.
- B. Enable automatic clustering on the 'TRANSACTION_DATE' column of the 'TRANSACTIONS' table.
- C. Implement data skipping by creating a masking policy on the 'TRANSACTION_DATE' column.
- D. Partition the data in the source system by 'TRANSACTION DATE' and load data in parallel corresponding to each partition.
- E. Examine the data load process to ensure the data is loaded in 'TRANSACTION_DATE' order. If not, sort the data by 'TRANSACTION_DATE' before loading.

Answer: B,E

Explanation:

Options A and E are the most appropriate. Automatic clustering (A) will reorganize the data to improve micro-partition pruning on 'TRANSACTION DATE', reducing the amount of data scanned and therefore reducing spillover. Loading the data in 'TRANSACTION DATE' order (E) ensures that data is naturally clustered as it is loaded, minimizing fragmentation and maximizing micro-partition pruning efficiency. Re-creating the table (B) is an extreme and unnecessary measure. Masking policies (C) are for data security, not performance optimization. Partitioning in the source system (D) might improve the data extraction process but won't directly address the micro-partition pruning issue within Snowflake if data isn't loaded in a sorted manner.

NEW QUESTION # 287

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