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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q116-Q121):

NEW QUESTION # 116

A Snowflake table 'CUSTOMER ORDERS' is clustered by 'ORDER DATE'. You have observed the clustering depth increasing over time, impacting query performance. To improve performance, you decide to recluster the table. However, you need to minimize the impact on concurrent DML operations and cost. Which of the following strategies would be MOST effective in managing this recluster process?

- A. Use 'CREATE OR REPLACE TABLE with SELECT FROM CUSTOMER ORDERS to rebuild the table with optimized clustering.
- B. Recluster the entire table in a single transaction during off-peak hours.
- C. Implement a continuous recluster process using Snowpipe to automatically recluster new data as it arrives.
- D. Create a new table clustered by 'ORDER_DATE', copy data in parallel, and then swap tables.
- E. Leverage Snowflake's automatic recluster feature, monitor its performance, and adjust warehouse size as needed.

Answer: E

Explanation:

Snowflake's automatic recluster feature is designed specifically to address this scenario. It automatically reclusters data in the background, minimizing the impact on concurrent DML operations. Options A and E will lock the table and can cause performance impacts during peak hours. Option B is more complex and requires significant downtime during the swap. Option C describes Snowpipe data ingestion, which isn't recluster. While creating clustered tables with Snowpipe is possible, this option does not address the already unclustered data. Adjusting the warehouse size is relevant to recluster performance but is secondary to enabling the automatic recluster itself.

NEW QUESTION # 117

You have a Snowflake Stream named 'PRODUCT CHANGES' created on a table 'PRODUCTS'. A downstream task attempts to consume records from the stream, but occasionally fails with a 'Table PRODUCTS has been altered' error. The 'PRODUCTS' table undergoes DDL changes (e.g., adding/dropping columns) infrequently, but these changes are necessary for evolving business requirements. How can you design a more resilient data pipeline that minimizes disruptions caused by DDL changes to the 'PRODUCTS' table while still leveraging the 'PRODUCT CHANGES' stream?

- A. Create a new Stream on the 'PRODUCTS' table after each DDL change. The downstream task should dynamically switch to consuming from the new stream when the old stream encounters an error.
- B. Implement error handling in the downstream task to automatically retry consuming records from the 'PRODUCT CHANGES' stream after a delay, assuming the DDL changes will be completed quickly.
- C. Use a materialized view instead of a standard view as the source for the stream. Materialized views are less susceptible to issues when the underlying base table changes
- D. Create a task that monitors the 'PRODUCTS' table for DDL changes using 'INFORMATION SCHEMA. TABLES'. When a change is detected, pause the downstream task, execute the DDL change, and then resume the downstream task after a short delay.
- E. Before executing any DDL changes on the 'PRODUCTS' table, drop and recreate the 'PRODUCT CHANGES' stream. This ensures the stream definition is always in sync with the table structure.

Answer: B

Explanation:

Option B (implementing retry logic) is the most practical and resilient approach. While DDL changes can temporarily disrupt the stream, retrying the task allows it to resume processing once the DDL changes are complete. Dropping and recreating the stream (Option A) would lose valuable change data. Creating a new stream (Option C) introduces complexity and requires significant code changes. Materialized views are not directly relevant to the stream issue when the underlying table changes. Pausing the task (Option E) might not be feasible in a production environment and doesn't guarantee data consistency during DDL changes. Streams are designed to continue working, albeit potentially with errors, after minor DDL changes to the underlying table, and a retry mechanism handles these temporary disruptions best.

NEW QUESTION # 118

You have a Snowflake table 'ORDERS' with billions of rows storing order information. The table includes columns like 'ORDER ID', 'CUSTOMER ID', 'ORDER DATE', 'PRODUCT_ID', and 'ORDER AMOUNT'. Analysts frequently run queries filtering by 'ORDER DATE' and 'CUSTOMER ID' to analyze customer ordering trends. The performance of these queries is slow. Assuming you've already considered clustering and partitioning, which of the following strategies would BEST improve query performance, specifically targeting these filtering patterns? Assume the table is large enough for search optimization to be beneficial.

- A. Enable search optimization on the 'ORDER_ID' column.
- B. Enable search optimization on the 'ORDER_DATE' column.
- C. Create a materialized view that pre-aggregates the data based on 'ORDER_DATE' and 'CUSTOMER_ID'.
- **D. Enable search optimization on both the 'ORDER_DATE' and 'CUSTOMER_ID' columns.**
- E. Enable search optimization on the 'PRODUCT_ID' column.

Answer: D

Explanation:

Enabling search optimization on both 'ORDER_DATE' and 'CUSTOMER_ID' will directly benefit queries filtering by these columns. Search optimization is designed to significantly speed up point lookups and range scans. A materialized view (option C) might help, but it introduces the overhead of maintaining the view and might not be as flexible as search optimization for ad-hoc queries. Options A and E are incorrect since they focus on columns not frequently used in the specified filtering criteria.

NEW QUESTION # 119

A data engineer is using Snowpark Python to build a data pipeline. They need to define a UDF that uses a pre-trained machine learning model stored as a file in a Snowflake stage. The UDF should receive batches of data for scoring. Which of the following is the MOST efficient way to implement this, minimizing data transfer and execution time?

- **A. Create a UDF with `gudf(packages=['snowflake-snowpark-python', 'scikit-learn'], input_types=[ArrayType(StringType())], return_type=FloatType(), replace=True, is_permanent=True, and load the model within the UDF's initialization using 'session.file.get'.`**
- B. Create a UDF that reads the model from the stage for each row that is passed to it using 'session.file.get' inside the UDF's execution logic.
- **C. Use '@vectorized' decorator from Snowpark to process each batch of data passed to the UDF and load the model inside it. Specify the appropriate data types in the decorator.**
- D. Load the model from the stage into a DataFrame, then use 'df.mapPartitions' to apply the model to each partition.
- E. Use 'session.read.parquet' to load the model file directly into a Snowpark DataFrame and then use 'DataFrame.foreach' to process each row.

Answer: A,C

Explanation:

Options C and E are the most efficient. Option C leverages the UDF framework to download the model file once when the UDF is initialized, minimizing data transfer for each call. Option E is more specific to Vectorized UDFs that takes in the batch of data at a time, so loading the model during initialization will cause less data transfer. Option A involves unnecessary DataFrame operations and partition mapping. Option B loads the entire model file into a DataFrame, which isn't necessary. Option D reads the model for each row, which is extremely inefficient.

NEW QUESTION # 120

You have a table named 'sales_data' with columns 'region', 'product_category', and 'revenue'. You want to create an aggregation policy to prevent users without the 'FINANCE_ADMIN' role from seeing revenue values aggregated across all regions. Instead, these users should only see revenue aggregated at the region level. The policy should return NULL for the 'revenue' column when aggregated across all regions by non-admin users. Which of the following SQL snippets correctly implements this aggregation policy?

- A. Option A
- B. Option C
- C. Option D
- D. Option E
- **E. Option B**

Answer: E

Explanation:

Option B correctly uses the GROUPING() function to identify when the aggregation is being performed across all regions (GROUPING(region) = 1). It then returns NULL for non-FINANCE_ADMIN users in this scenario. Option A is incorrect because grouping(region) = 0 means region-level aggregation. Option C does not consider regions in the policy, so non-admin users will always see null revenue. Option D's syntax is incorrect. must be combined with GROUPING as in E to work correctly.

Option E can also work but the CASE statement is clearer and easier to understand.

NEW QUESTION # 121

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