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SnowPro Advanced: Data Engineer DEA-C02 Exam Questions

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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q258-Q263):

NEW QUESTION # 258

You are designing a data warehouse for an e-commerce company. One of the requirements is to provide fast analytics on order fulfillment times by region. You have two tables: 'ORDERS': Contains order information, including ID, 'ORDER DATE', 'REGION ID', and 'FULFILLMENT DATE'. 'REGIONS': Contains region information, including 'REGION ID' and Due to the large size of the 'ORDERS' table and the complexity of calculating fulfillment times, you decide to use materialized views.

Which of the following combinations of materialized view definition and Snowflake features would BEST optimize query performance and minimize data staleness for this scenario? Choose two options.

- A. Use Snowflake's search optimization service on the 'ORDERS' table instead of creating a materialized view.
- B. Partition the 'ORDERS' table by 'ORDER_DATE' and create a materialized view that calculates 'FULFILLMENT_TIME' grouped by 'REGION_NAME', clustering by 'ORDER_DATE'
- C. Create a materialized view that joins 'ORDERS' and 'REGIONS', calculates 'FULFILLMENT_TIME', and groups by

'REGION NAME'. Do not specify a clustering key.

- D. Create a materialized view that joins 'ORDERS' and 'REGIONS', calculates 'FULFILLMENT_TIME' grouped by 'REGION_NAME', and cluster by 'REGION_NAME'. Configure incremental data refreshes.
- E. Create a materialized view that joins 'ORDERS' and 'REGIONS', calculates the difference between 'FULFILLMENT_DATE' and 'ORDER_DATE' as , and groups by REGION_NAME. Cluster the view by 'REGION_NAME'.

Answer: D,E

Explanation:

Options A and E, both provides optimized performance. A pre-computes the aggregated and joins then cluster the data, the use of a materialized view to pre-calculate fulfillment times and grouping by region significantly speeds up queries. Clustering by 'REGION NAME' further optimizes queries filtered by region. E, Incremental refreshes are crucial for maintaining data freshness with minimal performance impact. Because incremental refreshes do not support partition. Option B is not performant if we don't do any clustering on the MV. Option C does not support incremental refresh and its not good in this case. Option D partitioning the original table has no impact on MV query performance.

NEW QUESTION # 259

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

Answer: E

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 D) 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 # 260

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

Answer: B,C,E

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 # 261

You have implemented a masking policy on the 'EMAIL' column of a 'USERS' table. The policy masks the email address for all users except those with the 'SUPPORT' role. You now need to grant the 'SELECT' privilege on this table to a new role, 'ANALYST'. You want to ensure that the masking policy continues to work as expected for the 'ANALYST' role. Which of the following SQL statements should you execute?

- A.
- B.
- C.
- D.
- E.

Answer: E

Explanation:

Masking policies in Snowflake are automatically applied when a user queries a table with a column that has a masking policy set. Granting 'SELECT' privilege to the 'ANALYST' role does not require any further action related to the masking policy. The masking policy will automatically be applied based on the role of the user executing the query. Options B, C and E involve unnecessary or incorrect steps after granting the select privilege.

NEW QUESTION # 262

You are designing a data governance strategy for a Snowflake data warehouse. One of the key requirements is to track data lineage for sensitive data, specifically Personally Identifiable Information (PII). You need to understand how PII data flows through various transformations and tables. Which Snowflake feature, when combined with appropriate tagging and metadata management practices, can BEST help you achieve this?

- A. Snowflake Data Masking policies
- B. Snowflake Cloning
- C. Snowflake's Resource Monitors
- D. **Snowflake INFORMATION_SCHEMA views and Account Usage views**
- E. Snowflake Secure Data Sharing

Answer: D

Explanation:

Snowflake's INFORMATION_SCHEMA views (e.g., COLUMNS, TABLES, VIEWS) and Account usage views (e.g., QUERY_HISTORY, ACCESS_HISTORY) provide metadata about database objects and query execution history. By tagging PII columns and tracking queries that access these columns, you can trace data lineage. Data Masking policies protect data at rest and in transit. Secure Data Sharing allows sharing of data without physical copying. Cloning creates a copy of data. Resource monitors help manage costs.

NEW QUESTION # 263

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