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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q130-Q135):

NEW QUESTION # 130
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?

```sql CREATE OR REPLACE AGGREGATION POLICY revenue_policy RETURNS NUMBER AS (revenue NUMBER, region VARCHAR, product_category VARCHAR) -> CASE WHEN CURRENT_ROLE() = 'FINANCE_ADMIN' THEN revenue WHEN GROUPING(region) = 0 THEN revenue ELSE NULL END; ALTER TABLE sales_data ADD AGGREGATION POLICY revenue_policy ON revenue; ```

```sql CREATE OR REPLACE AGGREGATION POLICY revenue_policy RETURNS NUMBER AS (revenue NUMBER, region VARCHAR, product_category VARCHAR) -> CASE WHEN CURRENT_ROLE() = 'FINANCE_ADMIN' THEN revenue WHEN GROUPING(region) = 1 THEN revenue ELSE NULL END; ALTER TABLE sales_data ADD AGGREGATION POLICY revenue_policy ON revenue; ```

```sql CREATE OR REPLACE AGGREGATION POLICY revenue_policy RETURNS NUMBER AS (revenue NUMBER) -> CASE WHEN CURRENT_ROLE() = 'FINANCE_ADMIN' THEN revenue ELSE NULL END; ALTER TABLE sales_data ADD AGGREGATION POLICY revenue_policy ON revenue; ```

```sql CREATE OR REPLACE AGGREGATION POLICY revenue_policy RETURNS NUMBER AS (revenue NUMBER, region VARCHAR) -> CASE WHEN IS_ROLE_IN_SESSION('FINANCE_ADMIN') THEN revenue WHEN GROUPING(region) = 1 THEN revenue ELSE NULL END; ALTER TABLE sales_data ADD AGGREGATION POLICY revenue_policy ON revenue; ```

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

Answer: D

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. Options A is incorrect because grouping(region) = 0 means region-level aggregation. Options 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 # 131
You are responsible for monitoring a critical data pipeline that loads data from an external Kafka topic into a Snowflake table 'ORDERS' Data anomalies have been frequently observed, impacting downstream reporting. You want to implement a solution that proactivelyidentifies and alerts on data quality issues such as missing values, invalid formats, and unexpected data distributions. Which combination of Snowflake features and approaches would be MOST effective for achieving this objective with minimal performance overhead on the pipeline itself?

- A. Leveraging Snowflake's Data Governance features along with Snowpark UDFs to define and enforce data quality rules at the time of ingestion using a Python- based library like Great Expectations, configured to trigger alerts through Snowflake Notifications.
- B. Creating a separate Snowflake pipeline that reads from the same Kafka topic, performs data quality checks in real-time using Snowpipe and streams the results to an alert system.
- C. Employing Snowflake's built-in statistics and histogram features to analyze data distribution in the 'ORDERS' table and configure alerts based on deviations from historical patterns, combined with a Snowflake Native App for data quality reporting.
- D. Using Snowflake's 'VALIDATE' table function after the data load to check for data corruption and then trigger alerts based on the validation results.
- E. Implementing custom SQL-based data quality checks within a scheduled Snowflake task that runs after the data load and writing results to an audit table for monitoring.

Answer: A,C

Explanation:
Options C and E offer the most effective and comprehensive approach. Option C uses Snowpark UDFs to enforce data quality rules at ingestion, minimizing overhead on the primary pipeline while also providing governance. Option E complements this by using Snowflake's statistics and histograms for anomaly detection based on historical patterns. This combination allows for both proactive rule-based checks and reactive monitoring of data distribution.

NEW QUESTION # 132
You're tasked with optimizing a Snowflake data pipeline that transforms and loads data into a target table. The pipeline uses a series

of complex SQL queries with multiple joins and aggregations. After analyzing the query execution plans, you identify a few key bottlenecks. Which of the following optimization techniques would MOST directly address common performance bottlenecks in such a data pipeline within Snowflake?

- A. Applying appropriate clustering keys to the target table, ensuring that commonly used filter columns are included in the clustering key definition.
- B. Converting all SQL queries to use stored procedures for improved performance and security. Stored procedures execute faster than ad-hoc SQL.
- C. Disabling the query result cache to ensure that the most up-to-date data is always used.
- D. Utilizing materialized views to pre-compute and store the results of expensive aggregations, and ensuring the query optimizer rewrites queries to use the materialized views where applicable.
- E. Increasing the virtual warehouse size to the largest available option (e.g., X-Large). The bigger the warehouse, the faster all queries will run.

Answer: A,D

Explanation:
Options B and D are the most effective. Clustering keys optimize data retrieval based on filter conditions, significantly improving query performance, and materialized views reduce compute costs by storing pre-computed data and the optimizer rewrites to use it where possible, reducing processing time for queries that require those aggregations. Option A is a brute force approach that may not be cost effective. Option C is generally incorrect because it is not the most cost effecient method. Option E would negatively affect performance.

NEW QUESTION # 133
A Snowflake data warehouse contains a table 'WEB EVENTS' with columns like 'EVENT ID', 'EVENT TIMESTAMP, 'USER , 'PAGE URL', and 'SESSION ID'. The data engineering team has enabled search optimization on 'PAGE URL' because analysts frequently filter on specific URLs. However, they notice that queries filtering on multiple 'PAGE URL' values (e.g., using 'WHERE PAGE URL IN ('url', 'ur12', are not performing as well as expected. What are the potential reasons for this behavior, and what strategies can be used to improve performance in this scenario? Select all that apply:

- A. Statistics on the 'PAGE URL' column are outdated. Run 'ANALYZE TABLE WEB EVENTS to refresh the statistics.
- B. Search optimization is automatically disabled when using IN clause, therefore it is important to rewrite the query without using IN operator.
- C. Search optimization is not designed to efficiently handle IN list lookups with a large number of values. Consider using a temporary table or common table expression (CTE) to pre-filter the data.
- D. The number of distinct values in the 'PAGE URL' column is very high, leading to a large search access path, making IN list lookups inefficient. Consider clustering by PAGE_URL
- E. The warehouse size is too small to handle the complexity of the IN list lookup. Increase the warehouse size.

Answer: C,D

Explanation:
Options A and B are correct. A high cardinality in (Option A) means the search access path is large, making IN list lookups expensive. Search optimization is generally optimized for point lookups or small range scans, not large IN lists. Option B suggests using a temporary table or CTE to pre-filter the data, which can significantly improve performance by reducing the amount of data the optimizer needs to consider during the final filtering step. Option C (increasing warehouse size) might improve performance, but it doesn't directly address the issue of IN list lookups. Option D (analyzing the table) is always a good practice, but it's unlikely to be the primary cause of the slow IN list performance. Option E is wrong, Search optimization is not automatically disabled when using IN clause

NEW QUESTION # 134
You have created a JavaScript UDF named 'calculate discount' in Snowflake that takes two arguments: 'product_price' (NUMBER) and 'discount_percentage' (NUMBER). The UDF calculates the discounted price using the formula: 'product_price (1 - discount_percentage / 100)'. However, when you call the UDF with certain input values, you are encountering unexpected results, specifically with very large or very small numbers due to JavaScript's number precision limitations. Which of the following strategies can you implement to mitigate this issue and ensure accurate calculations within your JavaScript UDF?

- A. Use JavaScript's 'toFixed(V method to round the result to a fixed number of decimal places.
- B. Utilize a JavaScript library specifically designed for handling arbitrary-precision arithmetic, such as 'Big.js' or 'Decimal.jS ,

within the UDF.

- C. Convert the input numbers to strings within the JavaScript UDF before performing the calculation.
- D. Avoid large or small number and stick to the limited range of input values.
- E. Cast input arguments and the result to 'FLOAT within the UDF.

Answer: B

Explanation:
Option B is the most reliable solution. Using a dedicated arbitrary-precision arithmetic library like 'Big.js' or 'Decimal.js' allows you to perform calculations with a higher degree of accuracy, overcoming JavaScript's inherent limitations in handling very large or very small numbers. Option A might help with formatting the output, but it doesn't address the precision issue during calculation. Option C and D will not solve the problem. Option E is not practical.

NEW QUESTION # 135
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