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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q299-Q304):

NEW QUESTION # 299

A data engineering team is tasked with optimizing a complex query that joins three tables: 'ORDERS' , 'CUSTOMERS' , and 'PRODUCTS. The 'ORDERS' table contains millions of records and is frequently joined with 'CUSTOMERS' (containing customer demographics) and 'PRODUCTS' (containing product details). The initial query uses standard JOIN syntax, but performance is slow. The query retrieves order details along with customer and product information, filtering by a specific date range in the 'ORDERS' table and a customer segment in the 'CUSTOMERS table. Which optimization strategy would be MOST effective for significantly improving query performance?

- A. Convert the entire dataset into a single VARIANT column and query using JSON path expressions.
- B. Replace the standard JOINs with LATERAL FLATTEN operations.
- C. Apply clustering keys to the 'ORDERS table based on the date column used in the WHERE clause and clustering keys to the 'CUSTOMERS' table on the customer segment column. Also create appropriate indexes.
- D. Create materialized views that pre-join the 'ORDERS', 'CUSTOMERS, and 'PRODUCTS tables and filter based on common criteria.
- E. Increase the virtual warehouse size to X-LARGE without analyzing the query profile.

Answer: C,D

Explanation:

Materialized views can pre-compute the joined data and apply filters, significantly reducing the amount of data the query needs to process at runtime. Clustering keys on the frequently filtered columns in 'ORDERS' and 'CUSTOMERS' will enable data skipping, allowing Snowflake to efficiently prune micro-partitions. Creating indexes is not directly supported in Snowflake, however Clustering is equivalent to Indexing strategy. Increasing warehouse size without analysis is not an appropriate strategy. Lateral Flatten is relevant when dealing with array or semi-structured data, and converting the data into VARIANT would severely impact query performance.

NEW QUESTION #300

You are tasked with loading a large dataset (50TB) of JSON files into Snowflake. The JSON files are complex, deeply nested, and irregularly structured. You want to maximize loading performance while minimizing storage costs and ensuring data integrity. You have a dedicated Snowflake virtual warehouse (X-Large).

Which combination of approaches would be MOST effective?

- A. Use Snowpipe with auto-ingest, create a raw VARIANT column alongside projected relational columns for frequently accessed fields, and use search optimization on those projected columns.
- B. Load the JSON data using the COPY INTO command with gzip compression. Create a raw VARIANT column alongside projected relational columns for frequently accessed fields, and use materialized views to improve query performance.
- C. Load the JSON data using the COPY INTO command with no pre-processing. Create a VIEW on top of the raw VARIANT column to flatten the data for querying.
- D. Pre-process the JSON data using a Python script with Pandas to flatten the structure and convert it into a relational format like CSV. Then, load the CSV files using the COPY INTO command with gzip compression.
- E. Use Snowpipe with auto-ingest, create a single VARIANT column in your target table, and rely solely on Snowflake's automatic schema detection.

Answer: A

Explanation:

Option C is the most effective. Snowpipe provides continuous loading. A raw VARIANT column captures all data, and projecting commonly accessed fields into relational columns optimizes query performance. Search optimization on the projected columns allows for faster filtering and lookups. Options A, B, D, and E have trade-offs. A lacks optimized querying and can lead to expensive computations on the variant column. B requires pre-processing and may lose data fidelity. D impacts query performance due to runtime flattening. E introduces complexities with materialized view maintenance.

NEW QUESTION #301

You have a Snowflake table named 'CUSTOMER DATA that contains sensitive Personally Identifiable Information (PII). You need to grant a data analyst access to a subset of the data while masking specific columns containing PII. Which of the following Snowflake features, when used in combination, provides the MOST secure and efficient solution?

• A. Create a stored procedure that retrieves the data with masking applied and grant the analyst EXECUTE privilege on the

stored procedure.

- B. Create a new table containing only the non-sensitive columns and grant SELECT privileges on this table.
- C. Create a view on 'CUSTOMER DATA' with column masking policies and grant SELECT privileges on the view.
- D. Grant the analyst the 'SELECT privilege on the 'CUSTOMER_DATA' table and implement row-level security based on the analyst's role.
- E. Create a secure view on 'CUSTOMER DATA' with column masking policies and grant SELECT privileges on the secure view.

Answer: E

Explanation:

Option D is the correct answer. Secure views, combined with column masking policies, offer the most secure and efficient approach. Secure views prevent the underlying table structure and definitions from being exposed to the user, adding an extra layer of security. Column masking policies dynamically mask the sensitive data based on the user's role or other criteria. The combination minimizes data exposure and simplifies management compared to other options. Options A and B don't fully hide table structure. Option C focuses on row level security. Option E performance will not be optimal for large datasets.

NEW QUESTION #302

You are designing a data recovery strategy for a critical table 'CUSTOMER DATA' in your Snowflake environment. The data in this table is highly sensitive, and regulatory requirements mandate a retention period of at least 90 days for potential audits. You need to configure the Time Travel retention period to meet these requirements. What is the maximum supported Time Travel retention period, and how would you set it at the table level?

- A. The maximum retention period is 90 days. You can set it using: 'ALTER TABLE CUSTOMER DATA SET = 90.'
- B. The maximum retention period is 90 days for Enterprise Edition or higher. You can set it using: 'ALTER TABLE CUSTOMER DATA SET DATA RETENTION TIME IN DAYS = 90;'
- C. The maximum retention period is 7 days. You can set it using: 'ALTER TABLE CUSTOMER DATA SET = 7;'
- D. The maximum retention period is 365 days. You can set it using: ALTER TABLE CUSTOMER DATA SET DATA RETENTION TIME IN DAYS = 365;'
- E. The maximum retention period depends on your Snowflake edition and can be set at the account level only.

Answer: B

Explanation:

For Snowflake Enterprise Edition (or higher), the maximum Time Travel retention period is 90 days. The 'ALTER TABLE ... SET DATA RETENTION_TIME IN DAYS' command allows setting the retention period at the table level. Option D is partially correct about editions impacting limits, but incorrect about account-level settings only.

NEW QUESTION #303

A healthcare provider wants to share patient data with a research organization, but must ensure that researchers only have access to records from a specific region ('REGION A') and only see anonymized data'. You have a 'patients' table with columns 'patient_id', 'region', 'dob', 'medical history', and 'ssn'. Which of the following steps would be MOST effective and secure for implementing row-level filtering and data masking for this data sharing scenario, minimizing administrative overhead and maximizing query performance?

- A. Create a stored procedure that filters the 'patients' table based on the region and applies masking policies. The stored
 procedure writes the filtered and masked data to a new table. Grant access to the new table to the research organization's
 role.
- B. Create a standard VIEW on the 'patients' table with a WHERE clause filtering by 'region = 'REGION_A". Create a separate table containing only the anonymized data for 'REGION_A' and grant access to this separate table to the research organization's role.
- C. Create a secure VIEW on the 'patients' table with a WHERE clause filtering by 'region = 'REGION_A" and use masking policies to redact sensitive fields. Grant access to the secure view to the research organization's role.
- D. Create a policy tag on the 'region' column restricting access to 'REGION_A' and apply masking policies directly on the 'patients' table. Grant access to the patientS table to the research organization's role.
- E. Create a VIEW on the 'patients' table with a WHERE clause filtering by 'region = and use masking policies to redact sensitive fields. Grant access to the view to the research organization's role.

Answer: C

Explanation:

Using a secure VIEW is the most efficient and secure method. It provides row-level filtering (REGION_A) and masking policies, while secure views prevent access to the underlying table's data lineage even with ACCOUNTADMIN privileges. This is preferable to standard views because standard views can expose the underlying table structure. Stored procedures add unnecessary complexity, a separate table duplicates data, and policy tags require governance roles and don't, on their own, handle masking requirements. Also, creating a separate table results in duplicated data and is not efficient and secure and adds administrative overhead.

NEW QUESTION #304

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