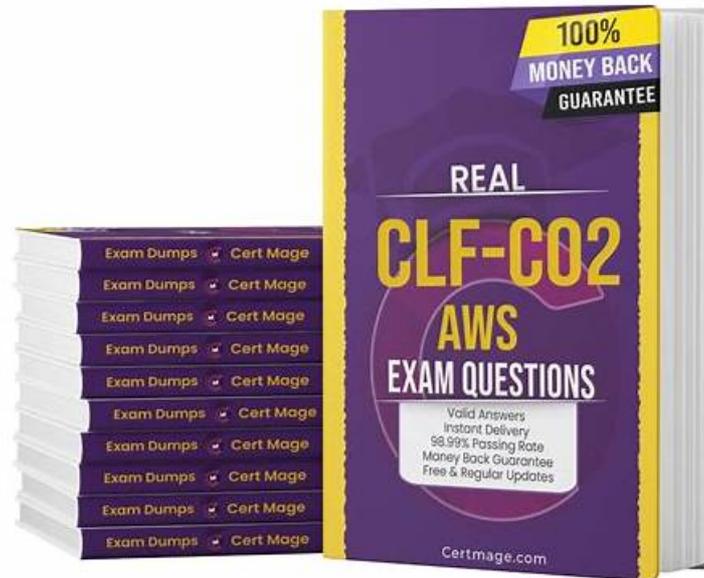


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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q276-Q281):

NEW QUESTION # 276

A data engineer is responsible for maintaining a Snowflake data warehouse. They notice a significant slowdown in the performance of a specific query that aggregates data from a table called 'SALES DATA', which contains billions of rows. The query is used for generating daily sales reports. The engineer suspects that the issue might be related to clustering. How would you diagnose the effectiveness of the clustering on the 'SALES DATA' table and identify potential improvements?

- A. Examine the query profile in the Snowflake web interface to identify stages that are scanning large amounts of data. Check if these stages are benefiting from clustering.
- B. Use the 'SHOW TABLES' command to view the clustering key defined on the table. Verify that the clustering key is appropriate for the query workload.
- C. Use the 'SYSTEM\$CLUSTERING_INFORMATION' function to analyze the clustering depth of the table. A high clustering depth indicates poor clustering.
- D. Use the 'VALIDATE table' command. This command detects fragmentation in the data due to poor clustering.
- E. Use the 'DESCRIBE TABLE SALES_DATA' command and check the 'clustering_key' property, then run 'SELECT SYSTEM\$MEASURE_CLUSTERING_DEPTH('SALES to check the average depth of the table. Compare the clustering depth to the number of micro-partitions to assess clustering effectiveness. A depth closer to zero is best.

Answer: C

Explanation:

Option A provides the most direct way to assess clustering effectiveness. 'SYSTEM\$CLUSTERING_INFORMATION' provides detailed metrics, including clustering depth, which directly indicates how well the data is clustered based on the clustering key. A high clustering depth suggests poor clustering, meaning that many micro-partitions need to be scanned to satisfy a query. Option B is helpful to confirm the key, but doesn't diagnose effectiveness. Option C is useful for identifying large scans but doesn't isolate clustering issues. Option D isn't a valid Snowflake command, there's no 'VALIDATE' command. Option E is very nearly correct, but it combines two separate operations, and 'SYSTEM\$MEASURE_CLUSTERING_DEPTH' requires the table name in the format 'database_name.schema_name.table_name'.

NEW QUESTION # 277

You need to unload data from a Snowflake table named 'CUSTOMER DATA' to an AWS S3 bucket. The data should be unloaded in Parquet format, partitioned by the 'CUSTOMER REGION' column, and automatically compressed with GZIP. Furthermore, you only want to unload customers whose 'REGISTRATION DATE' is after '2023-01-01'. Which of the following 'COPY INTO' statements correctly achieves this?

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

Answer: B

Explanation:

The correct 'COPY INTO' statement requires using a named stage and a named file format. A subquery is used to filter the data based on the 'REGISTRATION_DATE'. The 'PARTITION BY' clause is used to partition the data by 'CUSTOMER REGION'. You must create a FILE FORMAT separately and refer to it later. Other solutions have syntax errors, incorrect stage references, or incorrect ordering of clauses. Option 'A' doesn't use a stage nor it allows for a where condition. Option 'B' doesn't work since 'TYPE' and 'COMPRESSIONS' are properties of a file format, not direct arguments to FILE_FORMAT. 'C' includes the 'TYPE' and 'COMPRESSION' inline when this is not allowed. 'D' contains the same error with FILE_FORMAT as 'C' and 'B' and does not use a stage.

NEW QUESTION # 278

You are a data engineer responsible for data governance in a Snowflake environment. Your company has implemented data classification using tags to identify sensitive data. The compliance team has requested a report detailing all tables and columns that contain PII data, specifically including the tag name, tag value, the fully qualified name of the table, and the column name. You have the necessary privileges to access the Snowflake metadata views. Which of the following queries would provide the MOST comprehensive and accurate report, considering performance and ease of understanding?

- A.

- B. □
- C. □
- D. □
- E. □

Answer: A

Explanation:

Option D provides the MOST comprehensive and accurate report. It directly queries the view, filtering for 'TAG_NAME = 'PII'' and 'object_domain = 'COLUMN'' to specifically target tags applied to columns. It selects the database, schema, table name, column name, tag name, and tag value, providing all the necessary information. Option A requires a JOIN between 'snowflake.account_usage.columns' and , which is unnecessary for this use case and less efficient. option B is missing the OBJECT_DATABASE and OBJECT_SCHEMA which is needed to fully qualify the table. option C attempts to use a table function, which is unnecessary complexity and potentially less performant. Option E does not filter for column-level tags, potentially including tags applied to other object types (e.g., tables, views), leading to inaccurate results. The fully qualified name can be easily constructed from OBJECT DATABASE, OBJECT SCHEMA and OBJECT NAME.

NEW QUESTION # 279

You are designing a data sharing solution in Snowflake where a provider account shares a view with a consumer account. The view is based on a table that undergoes frequent DML operations (inserts, updates, deletes). The consumer account needs to see a consistent snapshot of the data, even during these DML operations. Which of the following strategies, or combination of strategies, would be MOST effective in ensuring data consistency from the consumer's perspective, and what considerations should be made?

- **A. Creating a standard view in the provider account and relying on Snowflake's inherent transactional consistency. The consumer account will always see a consistent snapshot of the data as it existed at the beginning of their query execution. No additional configurations are necessary.**
- B. A and B
- C. Creating a materialized view in the provider account and sharing that materialized view. This adds compute costs to the provider but ensures a consistent snapshot for the consumer account. The materialized view needs to be refreshed periodically, based on the rate of DML changes.
- D. Creating a stream on the base table in the provider account and building a view on top of the stream. This way, changes are only reflected when the stream is consumed, allowing for batch processing and controlled updates in the consumer account.
- E. Using Snowflake's Time Travel feature by querying the view with a specific 'AT' or 'BEFORE' clause in the consumer account. The provider account needs to inform the consumer account of a specific timestamp that guarantees consistency, adding administrative overhead.

Answer: A

Explanation:

Snowflake's architecture inherently provides transactional consistency. When the consumer account queries the shared view, they will see a consistent snapshot of the data as it existed at the beginning of their query execution. No additional mechanisms like Time Travel (A) or materialized views (B) are strictly necessary to ensure consistency. While streams (D) can be useful for change data capture, they don't directly guarantee consistency for a standard view shared with a consumer. Time travel in this case would also require significant coordination overhead.

NEW QUESTION # 280

A financial institution is using Snowflake to store transaction data for millions of customers. The data is stored in a table named 'TRANSACTIONS' with columns such as 'TRANSACTION ID', 'CUSTOMER ID', 'TRANSACTION DATE', 'TRANSACTION_AMOUNT', and 'MERCHANT CATEGORY'. Analysts are running complex analytical queries that often involve filtering transactions by 'TRANSACTION_DATE', 'MERCHANT_CATEGORY', and 'TRANSACTION_AMOUNT' ranges. These queries are experiencing performance bottlenecks. The data team wants to leverage query acceleration service to improve performance without significantly altering the existing query patterns. Which of the following actions or combination of actions would be MOST beneficial, considering the constraints and the nature of the queries? (Select TWO)

- **A. Enable Automatic Clustering on the 'TRANSACTIONS' table, ordering the keys as 'TRANSACTION_DATE', 'MERCHANT_CATEGORY', 'CUSTOMER_ID'. Then, enable query acceleration on the virtual warehouse.**
- B. Create separate virtual warehouses dedicated to reporting queries and ad-hoc queries respectively. Enable query acceleration only for the warehouse running reporting queries.

- C. Create materialized views pre-aggregating the transaction data by 'MERCHANT_CATEGORY and 'TRANSACTION_DATE, and enable query acceleration on the virtual warehouse.
- D. Increase the size of the virtual warehouse used for running the queries and enable query acceleration on the warehouse without further modifications.
- E. Enable Search Optimization Service for the 'TRANSACTIONS' table, specifically targeting the 'MERCHANT_CATEGORY column. Enable query acceleration on the virtual warehouse.

Answer: A,E

Explanation:

Enabling Automatic Clustering on 'TRANSACTIONS with the specified key order ('TRANSACTION DATES, 'MERCHANT_CATEGORY , 'CUSTOMER_ID') aligns the data layout with common query patterns, allowing Snowflake to efficiently prune irrelevant data during query execution. This drastically improves query performance. Enabling Search Optimization on the 'MERCHANT_CATEGORY further enhances query performance by creating search access paths that enable faster lookups and filtering based on merchant category. Simply increasing the warehouse size (option A) may provide some improvement, but it's less targeted and potentially less cost-effective than optimizing the data organization. While dedicated warehouses (option C) can improve concurrency, they do not address the underlying performance bottleneck related to data access. Materialized views (option E) can be beneficial, but they require careful design and maintenance, and they might not be flexible enough for ad-hoc queries with varying filter conditions. Clustering and search optimization provide a more general and efficient solution in this scenario.

NEW QUESTION # 281

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