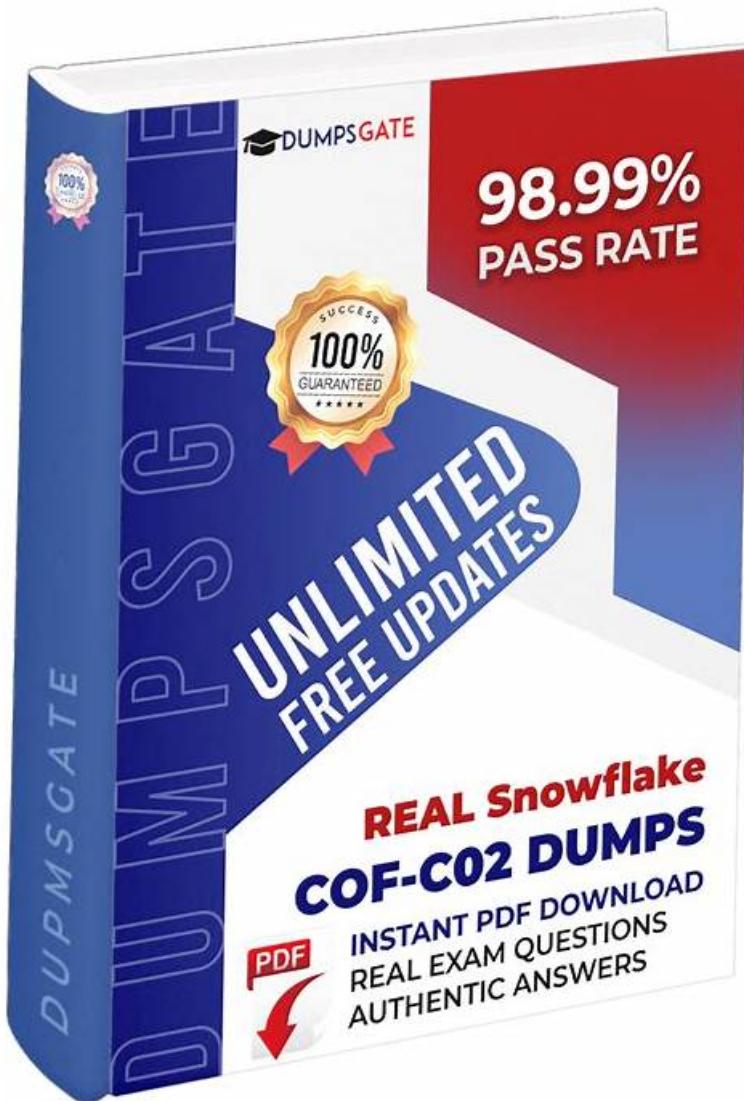


Quiz 2025 Snowflake DEA-C02–The Best Valid Test Pattern



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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q257-Q262):

NEW QUESTION # 257

You have a Snowflake view that joins three large tables: ORDERS, CUSTOMERS, and PRODUCTS. The query accessing this view is frequently used but performs poorly. You suspect inefficient join processing and potential skew in the data'. Which of the following strategies can be used to optimize the view's performance? (Select all that apply)

- A. Analyze the query profile to identify bottlenecks and potential data skew issues, and then re-cluster the underlying tables based on the most frequently used join keys.
- B. Replace the view with a materialized view to precompute and store the results.
- C. Use JOIN hints, such as BROADCAST or MERGE, to guide the query optimizer on join strategies.
- D. Partition the underlying tables based on the join keys to improve data locality.
- E. Increase the virtual warehouse size to provide more resources for query processing. Convert the view into a table using CREATE TABLE AS SELECT (CTAS).

Answer: A,B,C

Explanation:

Materialized views (A) can significantly improve performance by precomputing the results. JOIN hints (B) help the query optimizer choose the most efficient join strategy. Analyzing the query profile and re-clustering (C) addresses potential data skew and inefficient join processing. Increasing warehouse size (D) can help, but it's not a targeted solution for join performance. Partitioning (E) isn't directly supported in Snowflake; clustering is the analogous approach.

NEW QUESTION # 258

You are tasked with implementing a data loading process for a table 'CUSTOMER DATA' in Snowflake. The source data is in Parquet format on Azure Blob Storage and contains personally identifiable information (PII). You must ensure that the data is loaded securely, masked during the loading process, and that only authorized users can access the unmasked data after the load. Assume you have already created a stage pointing to the Azure Blob Storage. Which of the following steps should you take to achieve this?

- A. Load the data directly into a 'VARIANT column. Use a SQL transformation with 'FLATTEN' and masking policies on the extracted columns.
- B. Use a 'COPY command with the 'ENCRYPTION = (TYPE = 'AZURE CSE', KEY = option to encrypt the data during load. Implement role-based access control to restrict access to the table.
- C. Load the data without masking. Implement dynamic data masking policies on the table's PII columns using Snowflake's Enterprise edition features. Use a 'COPY' command with ERROR = CONTINUE
- D. Use a 'COPY command with 'ON ERROR = SKIP FILE'. Use a Task to monitor load failures and trigger alerts.
- E. Use a 'COPY command with the 'TRANSFORM' clause and JavaScript UDFs to mask the PII data during the load process. Implement masking policies on the 'CUSTOMER DATA' table to restrict access to the unmasked data.

Answer: E

Explanation:

Option B is the most comprehensive solution for secure data loading and PII protection. 'TRANSFORM' and JavaScript UDF masking during load prevent PII from being stored unmasked, enhancing security. Implementing masking policies provides granular control over access to the sensitive data post-load. It's more secure to avoid storing sensitive information even temporarily. Option A encrypts the data in transit but doesn't address masking. Option C requires dynamic data masking, but masking during copy is optimal. The correct way to copy and mask PII data is using a JavaScript UDF to mask the PII data during the load process, and then implement Masking Policies on the table.

NEW QUESTION # 259

A Snowflake data warehouse contains a table named 'SALES TRANSACTIONS' with the following columns: 'TRANSACTION

ID', 'PRODUCT D', 'CUSTOMER D', 'TRANSACTION DATE, and 'SALES AMOUNT. You need to optimize a query that calculates the total sales amount per product for a given month. The 'SALES TRANSACTIONS' table is very large (billions of rows), and queries are slow. Given the following initial query: `SELECT PRODUCT ID, SUM(SALES AMOUNT) AS TOTAL SALES FROM SALES TRANSACTIONS WHERE TRANSACTION DATE BETWEEN '2023-01-07' AND '2023-01-31' GROUP BY PRODUCT ID;` Which of the following actions, when combined, would MOST effectively improve the performance of this query?

- A. Create a clustering key on 'PRODUCT_ID' and 'TRANSACTION_DATE' columns in the 'SALES_TRANSACTIONS' table.
- B. Create a temporary table with the results of the query and query that table instead.
- C. Increase the virtual warehouse size to the largest available size.
- D. Convert the column to a VARCHAR data type.
- E. Create a materialized view that pre-aggregates the total sales amount per product and month.

Answer: A,E

Explanation:

Creating a clustering key on 'PRODUCT_ID' and 'TRANSACTION_DATE' allows Snowflake to efficiently prune micro-partitions based on the date range filter, and then quickly group by 'PRODUCT_ID'. A materialized view pre-aggregates the data, significantly reducing the amount of computation required at query time. While increasing the warehouse size might provide some improvement, it is not the most efficient solution. Converting 'TRANSACTION_DATE' to VARCHAR is detrimental. Using a temporary table is not necessarily an optimization.

NEW QUESTION # 260

You are designing a CI/CD pipeline for your Snowflake data transformations. One stage involves testing a new stored procedure that modifies several tables in your data warehouse. To ensure data integrity and proper rollback capabilities during testing in your development environment, you want to use a combination of cloning and Time Travel. Select the option that represents the most robust strategy for testing with the ability to revert to the original state in case of failures. Choose all that apply.

- A. Immediately after executing the stored procedure, execute 'UNDROP TABLE' on all the affected tables. If there were errors, it would restore data from the point of the procedure execution.
- B. Before executing the stored procedure in development, create clones of all affected tables and store the clone names in a configuration file for rollback if needed.
- C. Create a new database by cloning the existing database before the transformations. Use the cloned database for all development and testing.
- D. Create a clone of the schema containing all the tables affected by the stored procedure before executing the procedure in the development environment. This will create point in time backup to rollback at schema level.
- E. Leverage Snowflake's Time Travel feature to create a named snapshot of each affected table immediately before running the stored procedure. Use the 'AT(TIMESTAMP ...)' or 'BEFORE(STATEMENT => ...)' syntax within your testing framework, for easy reversion.

Answer: D,E

Explanation:

Options B and C provide the most robust and Snowflake-native rollback capabilities. Cloning the schema provides a complete and consistent snapshot of all affected tables. Time Travel offers fine-grained control for reverting individual tables to a specific point in time. Option A is less efficient as you would need to manage numerous clones and track them manually which would impact the development. Option D 'UNDROP TABLE' command is for objects that have been dropped already, it is not relevant here. Cloning database in Option E is too resource intensive for regular testing within a CI/CD pipeline.

NEW QUESTION # 261

You are implementing Snowpipe using the REST API for a custom data ingestion process. Your application uploads data files to an internal stage named '@MY STAGE' and then calls the Snowpipe REST API to trigger the data load. However, you are encountering 'insufficient privileges' errors when calling the API, even though the role used to authenticate the API requests has the 'USAGE' privilege on the stage and the 'OPERATE' privilege on the pipe. The Pipe name is 'MY PIPE'. Which of the following is the MOST LIKELY cause of this error, and what can you do to resolve it?

- A. The role doesn't have the 'USAGE' privilege on the database and schema containing the stage and pipe. Grant 'USAGE' on the database and schema.

- B. The role used to authenticate the API requests does not have the 'OWNERSHIP' privilege on the Snowpipe.
- C. The role used to authenticate the API requests requires the 'INSERT privilege on the target table in addition to 'USAGE on the stage and 'OPERATE on the pipe. Grant the 'INSERT privilege to the role.
- D. The role used to authenticate the API requests does not have the 'SELECT' privilege on the underlying table that the Snowpipe is loading data into.
- E. The Snowpipe's 'EXECUTE TASK' privilege has not been granted to the role used for the REST API calls. Grant the 'EXECUTE TASK' privilege to the role.

Answer: A,C

Explanation:

When using the Snowpipe REST API, the role used to authenticate the API calls must have the 'INSERT privilege on the target table. While 'USAGE on the stage and 'OPERATE on the pipe are necessary, they are not sufficient. Also, the user needs to have usage permission on the database and Schema where Stage and Pipe reside. Option A is not entirely accurate; 'SELECT' is not directly needed for Snowpipe to function. 'OWNERSHIP' (B) is not required for triggering the pipe. 'EXECUTE TASK' (D) is not relevant to Snowpipe REST API calls. The role performing the COPY operation (through Snowpipe triggered by the REST API) needs the 'INSERT privilege to write data to the target table.

NEW QUESTION # 262

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