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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q32-Q37):

NEW QUESTION # 32

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. 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.
- **B. 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.**
- C. 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.

- D. Create a new database by cloning the existing database before the transformations. Use the cloned database for all development and testing.
- 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: B,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 # 33

You are tasked with building a robust data quality monitoring system for a Snowflake data pipeline. The pipeline processes customer order data and loads it into a 'CUSTOMER ORDERS' table. You need to implement checks to ensure that certain critical columns (e.g., 'ORDER ID', 'CUSTOMER ID', 'ORDER DATE', meet specific data quality requirements (e.g., not null, valid format, within acceptable range). You want to design a flexible and scalable solution that allows you to easily add, modify, and monitor data quality rules. Select the options to implement that and scale efficiently Assume there is a central Data Quality table for each metrics

- A. Create a series of individual SQL scripts, each checking a specific data quality rule for a specific column, and schedule these scripts to run using Snowflake tasks.
- B. Implement a Snowpark Python UDF that leverages a data quality library (e.g., Great Expectations) to define and execute data quality rules. The UDF takes a DataFrame representing the data to be checked and returns a DataFrame containing the data quality check results.
- C. Build a set of custom Snowflake Native Apps to monitor and report on data quality. Each App will focus on one or more critical tables or data quality checks
- D. Utilize Snowflake's native Data Governance features, such as data masking and row-level security, to enforce data quality rules.
- E. Develop a parameterized stored procedure that accepts the table name, column name, data quality rule definition, and threshold values as input parameters. This procedure then dynamically constructs and executes the SQL query to check the data quality rule.

Answer: B,E

Explanation:

Options B and C represent the best approaches for a flexible and scalable data quality monitoring system. Option B, using a parameterized stored procedure, allows for dynamic rule execution and easy modification of rules. Option C, using a Snowpark Python UDF with a data quality library, provides a more structured and maintainable way to define and execute complex data quality checks, while also taking advantage of Python's rich ecosystem for data manipulation and analysis. Option A is less scalable and harder to maintain. Option D focuses on data security and access control rather than data quality. Option E will be too complex to maintain a large number of tables and checks.

NEW QUESTION # 34

Consider the following scenario: You are managing a Snowflake environment where users are running various queries with varying resource demands. You observe frequent warehouse resizing operations, leading to performance fluctuations and increased costs. Which of the following strategies, when implemented together, would BEST stabilize warehouse performance and minimize unnecessary resizing?

- A. Implement Resource Monitors to limit the daily credit consumption of the warehouse. Increase the warehouse size to accommodate all possible query demands and set the auto-suspend to a longer duration (e.g., 60 minutes).
- B. Monitor query history using Snowflake's web interface and identify query patterns that consistently require larger resources; recommend users refactor those queries. Set the warehouse auto-suspend to a very short duration (e.g., 1 minute) to ensure resources are released quickly when idle.
- C. Disable auto-suspend for the warehouse to prevent it from shutting down and causing performance delays. Force users to manually resize the warehouse as needed using ALTER WAREHOUSE commands.
- D. Enable Query Acceleration Service (QAS) for the warehouse. Set the warehouse size to Medium, regardless of the actual

workload demands, and rely solely on QAS to handle performance variations.

- E. Implement Query Tagging to categorize queries based on resource consumption. Analyze resource utilization patterns for different query categories. Adjust warehouse size and multi-cluster configuration based on these patterns, ensuring that a reasonable number of concurrent queries for each workload type is met.

Answer: E

Explanation:

Option D offers a comprehensive approach: Query Tagging allows for analyzing resource consumption patterns of different query types. This data drives informed decisions regarding warehouse size and multi-cluster configuration, aligning resources with actual needs. Resource Monitors control cost, auto-suspend setting makes sure performance fluctuations are avoided and cost are minimised. Option A is partly correct regarding query refactoring but short auto-suspend can increase cost. Option B does not address the root cause of performance fluctuations (varying query demands). Option C relies solely on QAS, which might not be sufficient for stabilizing performance and addressing all types of resource bottlenecks. Option E is highly impractical and inefficient.

NEW QUESTION # 35

You are implementing a data pipeline in Snowpark that reads data from an external stage (e.g., AWS S3) and performs complex transformations, including joins with large Snowflake tables. You notice that the pipeline's performance is significantly slower than expected, despite having sufficient warehouse resources. Which of the following actions would MOST likely improve the performance of the Snowpark data pipeline?

- A. Ensure that the external stage is properly configured with appropriate data formats (e.g., Parquet) and partitioning schemes that align with the join keys.
- B. Reduce the number of partitions in the DataFrame representing the data from the external stage using 'df.repartition(1)'.
• C. Persist the DataFrame representing the data from the external stage using 'df.cache()' before performing the joins.
- D. Optimize the SQL joins within the Snowpark DataFrame operations by using broadcast joins when appropriate and ensuring correct join key data types.
- E. Increase the warehouse size to the largest available option (e.g., X-Large or larger).

Answer: A,C,D

Explanation:

Options B, C, and E address key aspects of performance optimization: B: Optimizing joins is crucial for large datasets. Using broadcast joins where applicable (smaller table fits in memory) and ensuring compatible data types between join keys can significantly reduce data shuffling and improve join performance. C: Caching (persisting) the DataFrame from the external stage using avoids re-reading the data from S3 for each operation, especially if the data is accessed multiple times (e.g., in multiple joins). E: The configuration of the external stage is critical. Using columnar formats like Parquet enables efficient data scanning and filtering. Partitioning the data in S3 based on the join keys allows Snowflake to prune unnecessary data during the read, reducing the amount of data processed. Increasing the warehouse size (Option A) might help, but it's often more cost-effective to optimize the data pipeline first. Reducing the number of partitions to 1 (Option D) would likely hurt performance, as it eliminates parallelism.

NEW QUESTION # 36

You are tasked with setting up a Kafka Connector to ingest data into Snowflake. You need to ensure fault tolerance. Which of the following Kafka Connect configurations are essential for enabling fault tolerance and ensuring minimal data loss during connector failures? Select all that apply.

- A. Configure 'errors.tolerance' to 'all'.
- B. Set 'tasks.max' to a value greater than 1.
- C. Enable Kafka Connect's internal offset storage by configuring 'offset.storage.topic' and 'config.storage.topic'.
- D. Utilize Snowflake's auto-ingest feature alongside the Kafka Connector.
- E. Configure 'errors.deadletterqueue.topic.name' to specify a Dead Letter Queue (DLQ) topic.

Answer: B,C,E

Explanation:

The correct answers are A, C, and E. A: Increasing 'tasks.max' allows the connector to run multiple tasks in parallel, enabling faster processing and improved fault tolerance as the workload is distributed. If one task fails, others continue to operate. C: Kafka Connect relies on internal topics 'offset.storage.topic' and 'config.storage.topic' to store connector configurations and offset information. This ensures that upon a connector restart or worker failure, the connector can resume from where it left off, preventing

data loss and duplication. E: Configuring a Dead Letter Queue (DLQ) topic ('errors.deadletterqueue.topic.name') allows the connector to route records that cannot be processed due to errors to a separate topic. This ensures that problematic records do not halt the entire ingestion process and can be analyzed and reprocessed later. B is incorrect since it will only provide details on errors in the log but will not process data and stop the connector. D utilizes Snowflake's auto-ingest, which is independent of the Kafka connector; hence, it will not influence its fault tolerance.

NEW QUESTION # 37

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