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Snowflake DEA-C02 Latest Exam Fee: SnowPro Advanced: Data Engineer (DEA-C02) - ValidExam Gives Warm Service & Excellent Top Dumps

Contending for the success fruit of DEA-C02 practice exam, many customers have been figuring out the effective ways to pass it. Due to the shortage of useful practice materials or being scanty for them, we listed these traits of our DEA-C02 practice materials. Actually, some practice materials are shooting the breeze about their effectiveness, but our DEA-C02 practice materials are real high quality DEA-C02 practice materials with passing rate up to 98 to 100 percent.

Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q97-Q102):

NEW QUESTION # 97

A Snowflake table 'ORDERS' is clustered on the 'ORDER DATE column. After several months, you notice that many micro-partitions contain data from a wide range of 'ORDER DATE values, and query performance on date range filters is degrading. Which of the following actions could improve performance and reduce the overlap in micro-partitions?

- A. Run 'OPTIMIZE TABLE ORDERS' to recluster the table.
- B. Increase the virtual warehouse size used for loading data into the 'ORDERS' table.
- C. Change the clustering key to a composite key including ORDER DATE and another relevant column.
- D. Drop and recreate the table with a different clustering key.
- E. Change the ORDER DATE column to VARCHAR and then cluster.

Answer: A,C

Explanation:

Running 'OPTIMIZE TABLE ORDERS' will recluster the table based on the existing clustering key, potentially improving the organization of micro-partitions and reducing overlap. Changing the clustering key to a composite key that includes 'ORDER_DATE along with another relevant column that exhibits different characteristics (e.g., a high-cardinality column related to the order) might also help to create more distinct micro-partitions. While the virtual warehouse size (D) can affect load performance, it doesn't directly address the micro-partition overlap issue. Dropping and recreating the table (B) is a drastic measure and might not be necessary. Changing the data type of the 'ORDER DATE' column to VARCHAR (C) is generally not recommended and will likely hinder query performance.

NEW QUESTION # 98

A data engineering team is building a real-time data pipeline in Snowflake. Data arrives continuously and needs to be processed with minimal latency. The team is using Snowflake Streams and Tasks for incremental data processing. However, they are encountering issues where the tasks are sometimes skipped or delayed, leading to data inconsistencies. Which combination of actions would BEST address these issues and ensure reliable near real-time data processing?

- A. Increase the warehouse size to ensure sufficient compute resources. This will prevent tasks from being skipped due to resource contention.
- B. Adjust the ' ERROR_INTEGRATION' parameter on the task definition to send notifications when tasks fail. This allows for manual intervention but does not prevent skipping.
- C. Disable task scheduling and rely solely on Snowflake's Auto-Resume feature for warehouses. This simplifies the pipeline and reduces the chance of errors.
- D. Monitor the 'TASK HISTORY view regularly to identify skipped or delayed tasks and manually re-run them as needed. This is a reactive approach and does not prevent future occurrences.
- E. Configure the tasks to run using a serverless compute model (Snowflake-managed compute). Ensure the parameter is set to a higher value and implement error handling within the task using TRY/CATCH blocks.

Answer: E

Explanation:

Option C is the best solution. Serverless compute allows Snowflake to automatically manage resources for the tasks, ensuring they are not skipped due to insufficient compute. Setting 'SUSPEND TASK AFTER NUM FAILURES' avoids immediate suspension after a transient failure, and TRY/CATCH allows for robust error handling. Increasing warehouse size (A) may help, but serverless provides better elasticity. B only provides notification. D is incorrect as disabling tasks removes automation. E is a reactive approach.

NEW QUESTION # 99

You are setting up a Kafka connector to load data from a Kafka topic into a Snowflake table. You want to use Snowflake's automatic schema evolution feature to handle potential schema changes in the Kafka topic. Which of the following is the correct approach to enable and configure automatic schema evolution using the Kafka Connector for Snowflake?

- A. Set the 'value.converter.schemas.enable' to 'true' and provide Avro schemas and also, configure the Snowflake table with appropriate data types for each field. Schema Evolution is not supported by the Kafka Connector for Snowflake.
- B. Set the property to 'true' and the 'snowflake.ingest.stage' to an existing stage.
- C. Set the 'snowflake.data.field.name' property to the name of the column in the Snowflake table where the JSON data will be stored as a VARIANT, and set 'snowflake.enable.schematization' to 'true'.
- D. Automatic schema evolution is not directly supported by the Kafka Connector for Snowflake. You must manually manage

- E. Set 'snowflake.ingest.file.name' to an existing file in a stage.

Answer: D

Explanation:
The correct answer is E. Currently, the Snowflake Kafka connector does not directly support automatic schema evolution. You cannot configure the connector to automatically alter the Snowflake table schema based on changes in the Kafka topic's data structure. You must manually manage schema changes in the Snowflake table to align with the structure of the data being ingested from Kafka. Option D will simply throw errors as the configuration needed is not fully complete with data types. The connector does rely heavily on the VARIANT column and would not be able to evolve properly, and so, that function is not directly available.

NEW QUESTION # 100
Consider the following Snowflake UDTF definition written in Python:

Which of the following statements are TRUE regarding the deployment and usage of this UDTF?

- A. The UDTF can be called directly in SQL using 'SELECT FROM TABLE(process_json(VARIANT COLUMN));' without any prior registration.
- B. The return type of the generator 'yield' must strictly adhere to the declared output schema , or errors will occur during execution.
- C. The library needs to be explicitly installed and configured within the UDTF's environment using a Snowpark session.
- D. The UDTF needs to be registered using 'session.udtf.register' or 'create or replace function' with the 'imports' clause referencing the Python file, and the handler' specifying the function name.
- E. The UDTF will automatically be available in all schemas across all databases in the Snowflake account.

Answer: B,D

Explanation:
UDTFs in Snowflake require explicit registration using 'session.udtf.register' or 'create or replace function' command, defining the location of the source code (Python file) and the function to be executed. Also, data types of values which is 'yield'ed in the body of UDTF must strictly adhere with Output schema. Libraries from 'snowflake.snowpark' are usually available and does not needs explicit configuration. UDTFs are schema-bound, not automatically available everywhere. Direct call to UDTF without creation isn't possible.

NEW QUESTION # 101
You are developing a Snowpark Python application that transforms data from a source table "ORDERS RAW" into a target table 'ORDERS CLEANED'. The transformation involves multiple steps, including data validation, cleansing, and aggregation. You need to ensure that either all steps succeed, or none of them do, to maintain data integrity. You are considering different approaches to transaction management. Which of the following strategies offer the MOST comprehensive and reliable approach to manage transactions in this scenario, especially considering potential network interruptions and session timeouts?

- A. Leverage the 'with session.transaction_context() as transaction:' statement in Python (Snowpark 2.x or later). Inside the block perform all data transformations. If an exception is raised the context manager will automatically rollback the transaction, otherwise it will commit.
- B. Implement a custom transaction management system using temporary tables. Write intermediate results to temporary tables and only copy the data to the target table if all steps succeed. Drop the temporary tables if an error occurs.
- C. Rely on Snowpark's auto-commit mode and assume that each operation is atomic. If an error occurs, manually revert the changes by deleting any partially processed data.
- D. Explicitly start a transaction using 'session.autocommit = False' and manually commit the transaction using 'session.commit()' at the end of the process. Catch any exceptions and call 'session.rollback()' in case of an error. Implement retry logic for network interruptions.
- E. Disable autocommit using 'session.autocommit = False' , perform all transformations, and then use 'session.commit()' at the end. If a network interruption occurs, the transaction will automatically be rolled back by Snowflake.

Answer: A

Explanation:
The 'with session.transaction_context() as transaction:' statement provides the most reliable and concise way to manage transactions in Snowpark Python. This automatically handles transaction lifecycle, including committing if successful and rolling back if exceptions

arise. Options A and C do not provide sufficient control over transaction boundaries. Option B requires explicit handling of commit, rollback, and retry logic, increasing code complexity. Option D introduces complexity with temporary tables. Using transaction_context automatically manages the session and provides the most robust solution to a potentially unstable network or long-running operation.

NEW QUESTION # 102

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