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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q17-Q22):

NEW QUESTION # 17

You are tasked with creating a Snowpark Java stored procedure to calculate a complex, custom rolling average for a time series dataset. This rolling average requires access to external libraries for statistical calculations. Which of the following steps are necessary to successfully deploy and execute this stored procedure?

- A. All of the above.
- B. Create a stored procedure in Snowflake, specifying the fully qualified path to the JAR file in the stage, the handler class, and the return type.
- C. Upload the JAR file to a Snowflake stage.
- D. Grant the necessary privileges on the stage and the database to the role executing the stored procedure.
- E. Package the Java code and all necessary external libraries into a single JAR file.

Answer: A

Explanation:

All the steps mentioned are necessary. The Java code and its dependencies must be packaged into a JAR (A), which is then uploaded to a Snowflake stage (B). The stored procedure needs to be created with a reference to the JAR file and the handler (C), and finally, appropriate permissions must be granted (D). Therefore, option E is the correct answer.

NEW QUESTION # 18

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 schema changes in Snowflake.**
- 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 # 19

You have an external table named in Snowflake that points to a set of CSV files in an AWS S3 bucket. The CSV files have a header row, and the data is comma-separated. However, some of the files in the S3 bucket are gzipped. You need to define the external table to correctly read both compressed and uncompressed files. Which of the following SQL statements BEST achieves this?

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

Answer: D

Explanation:

The 'COMPRESSION = AUTO' parameter in the file format definition allows Snowflake to automatically detect and decompress gzipped files while also reading uncompressed files. The 'SKIP HEADER = 1' parameter ensures that the header row in the CSV

files is skipped.

NEW QUESTION # 20

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. Use the 'VALIDATE table command. This command detects fragmentation in the data due to poor clustering.
- B. Use the SYSTEM\$CLUSTERING_INFORMATION function to analyze the clustering depth of the table. A high clustering depth indicates poor clustering.
- C. 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.
- D. 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.
- E. 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.

Answer: B

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 # 21

You're using Snowpark Python to transform data in a Snowflake table called 'employee_data' which includes columns , 'department', 'salary' , and 'performance_rating'. You need to identify the top 3 highest-paid employees within each department based on their salary, but only for departments where the average performance rating is above 4.0. Which of the following approaches using Snowpark efficiently combines window functions, filtering, and aggregations to achieve this?

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

Answer: A

Explanation:

Option E is the most efficient approach, as it calculates the average performance rating per department first and then joins the original DataFrame to only include departments with an average rating above 4.0 using 'left join'. The correct department and salary calculations, filter to only the top 3 with high performance review.

NEW QUESTION # 22

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