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Snowflake SnowPro Advanced: Data Analyst Certification Exam Sample

Questions (Q152-Q157):

NEW QUESTION # 152

What distinguishes exploratory ad-hoc analyses from routine data analysis?

- A. Ad-hoc analyses focus only on established trends.
- B. They query known patterns without further exploration.
- C. Ad-hoc analyses rely solely on predefined queries.
- **D. Ad-hoc analyses explore patterns and anomalies beyond established routines.**

Answer: D

Explanation:

Ad-hoc analyses explore patterns and anomalies beyond established routines.

NEW QUESTION # 153

You are developing a Snowflake stored procedure that uses an external Python library (e.g., scikit-learn for machine learning). The library is not natively available within Snowflake's Python environment. What is the correct process to include and utilize this external library within your stored procedure?

- A. Use the 'pip install' command within the stored procedure's Python code to install the library from PyPI during each execution of the procedure.
- **B. Create a Snowflake stage, upload the library's '.whl' file to the stage, and then use the 'CREATE PROCEDURE' statement with the 'IMPORTS' clause to specify the stage and .whl' file. Snowflake will then install the library during procedure creation.**
- C. Include the source code of the library directly within the stored procedure's Python code.
- D. Simply import the library in your Python code within the stored procedure. Snowflake automatically downloads and installs any missing libraries from PyPI when the procedure is executed.
- E. Upload the library using the Snowflake web interface, so Snowflake will know which library it should be using.

Answer: B

Explanation:

Option B is the correct approach. Snowflake uses stages and the 'IMPORTS' clause to manage external dependencies for Python stored procedures. You must upload the .whl file of the library to a stage and then reference it in the 'CREATE PROCEDURE' statement. This ensures that the library is available when the procedure is executed. Option A is incorrect because Snowflake does not automatically download libraries from PyPI. Option C is incorrect because you cannot execute shell commands like 'pip install' within a stored procedure. Option D is generally impractical for larger libraries, and Option E isn't a valid approach.

NEW QUESTION # 154

A financial institution needs to collect stock ticker data for intraday trading analysis. The data source provides updates every second. They need to maintain a 5-minute rolling average of stock prices for each ticker. The system needs to be highly available and resilient to data source interruptions. Considering the need for near real-time analysis and potential data source instability, which combination of technologies and approaches would be MOST effective?

- **A. Employing a stream processing framework (e.g., Apache Kafka) to ingest the data, perform the rolling average calculation using a tumbling window, and load the aggregated results into Snowflake.**
- B. Using a traditional ETL tool to extract, transform (calculate rolling average), and load the data into Snowflake in 15-minute intervals.
- C. Leveraging Snowflake's dynamic data masking and data classification capabilities to maintain data security and compliance while adhering to real-time data ingestion.
- D. Using a scheduled task to query the API every minute and store the data directly into a Snowflake table with a materialized view calculating the rolling average.
- E. Storing the raw data into Snowflake using Snowpipe in micro-batches and creating a VIEW that performs the rolling average calculation on-demand.

Answer: A

Explanation:

A stream processing framework like Kafka is ideal for handling high-velocity data streams. Kafka provides fault tolerance and the

ability to perform real-time aggregations (rolling average with tumbling window). While Snowpipe can ingest the raw data quickly, calculating the rolling average on-demand (using a VIEW) may not meet the near real-time requirement and can be inefficient. A scheduled task might not be able to handle the volume and frequency of data. The key to answering this question is understanding the need for real-time aggregation AND resilience to potential data source outages, both of which Kafka elegantly addresses.

NEW QUESTION # 155

What actions are typically involved in working with and querying data in Snowflake? (Select all that apply)

- A. Identifying and handling data anomalies
- B. Employing time travel for data retrieval
- C. Using randomization techniques
- D. Leveraging materialized views for aggregations

Answer: A,B,C,D

Explanation:

Working with Snowflake data involves identifying anomalies, using randomization, employing time travel for historical data retrieval, and utilizing materialized views for enhanced query performance.

NEW QUESTION # 156

You are using Snowpipe to continuously load JSON data from an external stage. Occasionally, some JSON records are malformed and cause the pipe to fail. You want to configure the pipe to skip these invalid records and continue loading valid data, while also capturing the error details for later analysis. Which approach provides the most efficient and appropriate solution for this scenario?

- A. Configure the Snowpipe definition to use the 'VALIDATE(O)' function within the 'COPY INTO' statement.
- B. Use the 'VALIDATION MODE = RETURN ALL ERRORS' parameter in the 'COPY INTO' statement and then filter the data based on the errors returned.
- C. Implement custom error handling in your application code to pre-validate JSON records before uploading them to the stage.
- D. Use the '=SKIP_FILE' option in the 'COPY INTO' statement used by the Snowpipe definition.
- E. Use the 'ON ERROR = 'CONTINUE'' option in the 'COPY INTO' statement used by the Snowpipe definition in conjunction with the 'VALIDATE' function to capture error details.

Answer: E

Explanation:

Option E is the most efficient and complete solution. 'ON ERROR = 'CONTINUE'' allows Snowpipe to skip bad records and continue processing. Using it in conjunction with the 'VALIDATE' function within the 'COPY INTO' statement enables capturing error information for analysis. This combines error skipping with error logging. Options A, B, C, and D are either less efficient (requiring pre-processing or post-processing of data), or do not provide a comprehensive solution for both skipping and capturing error information. Using (option B) is too coarse-grained as it skips entire files, even with only a few errors. Using 'VALIDATION MODE' without 'ERROR=CONTINUE' will still stop the pipe on errors.

NEW QUESTION # 157

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