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Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q140-Q145):

NEW QUESTION # 140
Consider a scenario where you have a Snowflake table named 'CUSTOMER DATA' containing customer IDs (INTEGER) and encrypted credit card numbers (VARCHAR). You need to create a secure JavaScript UDF to decrypt these credit card numbers using a custom encryption key stored securely within Snowflake's internal stage, and then mask all but the last four digits of the

decrypted number for data protection. Which of the following actions are necessary to ensure both functionality and security while adhering to Snowflake's best practices for UDF development and security?

- A. Store the encryption key directly within the JavaScript UDF code as a string variable.
- B. Use Snowflake's Secure Vault (Secret) feature to store the encryption key and retrieve it securely within the UDF.
- C. Pass the encryption key as an argument to the UDF each time it is called.
- D. Encrypt the key using a weaker encryption algorithm before storing it in an internal stage to balance security and performance.
- E. Store the encryption key in a separate file on an internal stage accessible only by the UDF's service account and load the key from the file within the UDF at runtime.

Answer: B,E

Explanation:
Options B and D are the correct answers. Option B - Storing the encryption key in a file on an internal stage, accessible only by the UDF's service account, is a secure way to manage the key. Option D - Snowflake's Secure Vault (Secret) feature is designed specifically for securely storing and managing sensitive information like encryption keys. This is the most recommended approach. Options A and C are insecure and should be avoided. Option E defeats the purpose of encryption.

NEW QUESTION # 141
You are tasked with building a data pipeline that ingests data from various sources into Snowflake, processes it, and then writes the final results back to a data lake in AWS S3, partitioned by date. The data in S3 should be queryable by other applications outside of Snowflake. You choose to use Snowflake Iceberg tables for this purpose. Which of the following is the correct SQL statement to create an Iceberg table 'analytics.public.daily_summary' in Snowflake, backed by an S3 bucket 's3://your-bucket/data/daily_summary/', partitioned by the column, and specifying 'parquet' as the file format?

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

Answer: E

Explanation:
The correct syntax for creating an Iceberg table in Snowflake backed by an external location involves using 'USING ICEBERG' and 'EXTERNAL_LOCATION'. 'LOCATION' is used for standard external tables, not Iceberg tables. The 'DATA_SOURCE parameter is not valid in this context. The syntax is specifically designed for creating Iceberg tables and correctly utilizes EXTERNAL_LOCATION to point to the S3 bucket. Note that Iceberg tables requires EXTERNAL_LOCATION rather than LOCATION.

NEW QUESTION # 142
Snowpark DataFrame 'employee_df' contains employee data, including 'employee_id', 'department', and 'salary'. You need to calculate the average salary for each department and also retrieve all the employee details along with the department average salary. Which of the following approaches is the MOST efficient way to achieve this?

- A. Create a temporary table with average salaries per department, then join it back to the original DataFrame.
- B. Create a separate DataFrame with average salaries per department, then join it back to the original DataFrame.
- C. Use a correlated subquery within the SELECT statement to calculate the average salary for each department for each employee.
- D. Use 'groupBV to get a dataframe containing average salary by department and then use a Python UDF to iterate through the 'employee_df and add the value to each row
- E. Use the 'window' function with 'avg' to compute the average salary per department and include it as a new column in the original DataFrame.

Answer: E

Explanation:
Using the 'window' function (Option C) is the most efficient. Window functions are specifically designed for this type of calculation,

allowing you to perform aggregations over a subset of rows related to the current row (in this case, employees in the same department) without the overhead of joins or subqueries. Option A, B and E are less efficient due to join and subquery overhead. UDFs are also typically slower than built-in functions.

NEW QUESTION # 143
You are developing a data pipeline that uses Snowpipe Streaming to ingest JSON data into a Snowflake table. Some JSON documents contain nested arrays and complex structures. You need to flatten the JSON structure during ingestion to simplify querying. Consider the following JSON document: { "order id": 123, "customer": { "id": "cust123", "name": "John Doe", "address": { "street": "123 Main St", "city": "Anytown" } }, "items": [{"product_id": "prodl", "quantity": 2}, {"product_id": "prod2", "quantity": 1}] } Which approach would you use within the 'COPY INTO' statement of your Snowpipe to flatten this JSON structure during ingestion?

- A. Snowpipe and the 'COPY INTO' command automatically flattens JSON data during ingestion; no additional steps are required.
- B. Use the ' FLATTEN()' table function directly within the 'COPY INTO' statement to expand the 'items' array and extract nested fields. For nested objects, use dot notation directly in the SELECT list (e.g., 'customer.name').
- C. Use JavaScript UDFs within the 'COPY INTO' statement to recursively flatten the JSON structure.
- D. Pre-process the JSON documents before loading them into the stage using a custom script to flatten the structure.
- E. Create a separate transformation pipeline using Snowflake Tasks to flatten the data after it is ingested into the table.

Answer: B

Explanation:
Snowflake's 'FLATTEN()' function, combined with dot notation for nested objects, provides the most efficient way to flatten JSON data during ingestion within the 'COPY INTO' statement. Options B, C, and D introduce unnecessary complexity and latency. Snowpipe does NOT automatically flatten JSON (E).

NEW QUESTION # 144
You are responsible for monitoring data quality in a Snowflake data warehouse. Your team has identified a critical table, 'CUSTOMER DATA, where the 'EMAIL' column is frequently missing or contains invalid entries. You need to implement a solution that automatically detects and flags these anomalies. Which of the following approaches, or combination of approaches, would be MOST effective in proactively monitoring the data quality of the 'EMAIL' column?

- A. Create a Snowflake Task that executes a SQL query to count NULL 'EMAIL' values and invalid 'EMAIL' formats (using regular expressions). The task logs the results to a separate monitoring table and alerts the team if the count exceeds a predefined threshold.
- B. Use Snowflake's Data Quality features (if available) to define data quality rules for the 'EMAILS column, specifying acceptable formats and thresholds for missing values. Configure alerts to be triggered when these rules are violated.
- C. Implement a Streamlit application connected to Snowflake that visualizes the percentage of NULL and invalid 'EMAIL' values over time, allowing the team to manually monitor trends.
- D. Utilize an external data quality tool (e.g., Great Expectations, Deequ) to define and run data quality checks on the 'CUSTOMER DATA' table, integrating the results back into Snowflake for reporting and alerting.
- E. Schedule a daily full refresh of the 'CUSTOMER DATA' table from the source system, overwriting any potentially corrupted data.

Answer: A,B,D

Explanation:
Options A, B, and D are the most effective. Option A provides a programmatic approach within Snowflake. Option B leverages Snowflake's built-in data quality capabilities (if available, check documentation for supported features and editions). Option D integrates with external specialized tools. Option C relies on manual monitoring, which is less proactive. Option E does not address the root cause of data quality issues and could potentially overwrite valid data with erroneous data.

NEW QUESTION # 145
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