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Snowflake SnowPro® Specialty: Gen AI Certification Exam Sample Questions (Q143-Q148):

NEW QUESTION # 143

A data engineer is integrating SNOWFLAKE.CORTEX.CLASSIFY_TEXT into an automated data pipeline that uses dynamic tables to process and transform streaming text data. They have ensured that the service account used has been granted the necessary SNOWFLAKE.CORTEX_USER database role. After deploying the pipeline, they consistently receive an error whenever CLASSIFY_TEXT is invoked. Which of the following is the most likely cause of the error encountered by the data engineer?

- A. The 'task_description' provided in the optional arguments for 'CLASSIFY_TEXT' exceeds the recommended length of approximately 50 words, leading to a validation error.
- B. The array contains more than 100 unique categories, exceeding the maximum allowed limit for the function.
- C. The input text being processed by 'CLASSIFY_TEXT' includes extensive non-plain English content, such as code blocks, which causes the function to fail with an error.
- D. The role used by the data engineer, despite having 'SNOWFLAKE.CORTEX_USER', lacks the fundamental 'USAGE' privilege on the database where the text data is stored.
- E. Snowflake Cortex functions, including 'CLASSIFY_TEXT', currently do not support integration with dynamic tables within data pipelines.

Answer: E

Explanation:

Option A is plausible for a data-specific error, but the question describes a 'consistent error' during pipeline integration. The maximum number of categories is 100. Option B is incorrect because if the text contains non-plain English content like code snippets, the function 'won't return an error, but the results may not be what you expect'. This would lead to inaccurate results, not a consistent error preventing the function's execution. Option C is less likely to be the 'most' likely cause of an error specific to the 'CLASSIFY_TEXT' function's invocation, especially since the 'SNOWFLAKE.CORTEX_USER' role, which grants access to Cortex AI functions, has already been granted. Missing 'USAGE' on the data's database would typically manifest as a more general SQL access error. Option D is correct because a known limitation for Snowflake Cortex functions, including 'CLASSIFY_TEXT', is that they do not support dynamic tables. This is a fundamental incompatibility that would cause consistent errors when integrating into a dynamic table pipeline. Option E is incorrect. While a 'task_description' should be 'no more than about 50 words', this is a recommendation for optimal performance, not a strict limit that is explicitly stated to cause an error when exceeded.

NEW QUESTION # 144

A data engineering team is setting up an automated pipeline in Snowflake to process call center transcripts. These transcripts, once loaded into a raw table, need to be enriched by extracting specific entities like the customer's name, the primary issue reported, and the proposed resolution. The extracted data must be stored in a structured JSON format in a processed table. The pipeline leverages a SQL task that processes new records from a stream. Which of the following SQL snippets and approaches, utilizing Snowflake Cortex LLM functions, would most effectively extract this information and guarantee a structured JSON output for each transcript?

- Use SNOWFLAKE.CORTEX.EXTRACT_ANSWER() multiple times with separate questions for 'customer name', 'issue', and 'resolution', then use SQL JSON functions to combine the results into a single JSON object.
- Use SNOWFLAKE.CORTEX.COMPLETE() with a prompt like 'Extract customer name, issue, and resolution as a JSON object: [transcript_text]' and rely on the LLM's natural ability to generate JSON.
- Use AI_COMPLETE() with a single prompt and explicitly define a response_format argument containing a JSON schema for 'customer_name', 'issue', and 'resolution' fields.
- Use SNOWFLAKE.CORTEX.SUMMARIZE() on the transcript and then manually parse the summary text using regular expressions within SQL to extract the desired entities.
- Create a Python UDF that calls an external LLM API to extract the entities and return a JSON string, then integrate this UDF into the SQL task.

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

Answer: C

Explanation:

To guarantee a structured JSON output for entity extraction, (the updated version of 'COMPLETE()') with the response_format argument and a specified JSON schema is the most effective approach. This mechanism enforces that the LLM's output strictly conforms to the predefined structure, including data types and required fields, significantly reducing the need for post-processing and improving data quality within the pipeline. Option A requires multiple calls and manual JSON assembly, which is less efficient. Option B relies on the LLM's 'natural ability' to generate JSON, which might not be consistently structured without explicit 'response_format'. Option D uses , which is for generating summaries, not structured entity extraction. Option E involves external LLM API calls and Python UDFs, which, while possible, is less direct than using native 'AI_COMPLETE' structured outputs within a SQL pipeline in Snowflake Cortex for this specific goal.

NEW QUESTION # 145

A data application developer is building a Streamlit chat application within Snowflake. This application uses a RAG pattern to answer user questions about a knowledge base, leveraging a Cortex Search Service for retrieval and an LLM for generating responses. The developer wants to ensure responses are relevant, concise, and structured. Which of the following practices are crucial when integrating Cortex Search with Snowflake Cortex LLM functions like AI_COMPLETE for this RAG chatbot?

- A. To maintain conversational context in a multi-turn chat, the developer should pass all previous user prompts and model responses in the
- B. The
- C. Using the
- D. For performance and cost optimization, it is always recommended to query Cortex Search and the LLM function within a single
- E. The retrieved context from Cortex Search should be directly concatenated with the user's prompt as input to the

Answer: A,C

Explanation:

Option A is incorrect. The user's query is typically embedded (e.g., using 'EMBED_TEXT 768') to perform a similarity search against the Cortex Search Service. The *retrieved documents* (context) are then passed to the 'AI_COMPLETE' function, not the embedding function itself. Option B is correct because to provide a stateful, conversational experience, all previous user prompts and model responses should be passed in the array to the 'COMPLETE' or 'AI_COMPLETE' function. Option C is incorrect. While concatenation is a method, for better accuracy and control, the retrieved context should be integrated into a well-engineered prompt, often using tags or specific instructions, rather than just raw concatenation, to guide the LLM's response. Option D is correct because 'AI_COMPLETE' Structured Outputs' allows you to supply a JSON schema that completion responses must follow, reducing the need for post-processing and enabling seamless integration with systems requiring deterministic responses. Option E is incorrect. While keeping processing within Snowflake is good for data governance, complex RAG pipelines often involve multiple distinct steps (query embedding, search, retrieval, LLM completion) that may benefit from a staged approach rather than a single monolithic SQL statement. The optimal approach depends on the specific complexity and performance requirements, and a single 'SELECT' for the *entire* RAG flow might not always be the most efficient or practical solution.

NEW QUESTION # 146

A data scientist is tasked with improving the accuracy of an LLM-powered chatbot that answers user questions based on internal company documents stored in Snowflake. They decide to implement a Retrieval Augmented Generation (RAG) architecture using Snowflake Cortex Search. Which of the following statements correctly describe the features and considerations when leveraging Snowflake Cortex Search for this RAG application?

- A. To create a Cortex Search Service, one must explicitly specify an embedding model and manually manage its underlying infrastructure, similar to deploying a custom model via Snowpark Container Services.
- B. For optimal search results with Cortex Search, source text should be pre-split into chunks of no more than 512 tokens, even when using models with larger context windows like



- C. Cortex Search automatically handles text chunking and embedding generation for the source data, eliminating the need for manual ETL processes for these steps.
- D. The
- E. Enabling change tracking on the source table for the Cortex Search Service is optional; the service will still refresh automatically even if change tracking is disabled.

Answer: B,C,D

Explanation:

Option A is correct because Cortex Search is a fully managed service that gets users started with a hybrid (vector and keyword) search engine on text data in minutes, without needing to worry about embedding infrastructure maintenance, or index refreshes. Option B is incorrect because Cortex Search is a fully managed service; users do not need to manually manage the embedding model infrastructure. A default embedding model is used if not specified. Option C is correct because, for best search results with Cortex Search, Snowflake recommends splitting text into chunks of no more than 512 tokens, as smaller chunks typically lead to higher retrieval and downstream LLM response quality, even with models that have larger context windows. Option D is correct because the SNOWFLAKE.CORTEX.SEARCH_PREVIEW function allows users to test the search service to confirm it is populated with data and serving reasonable results for a given query. Option E is incorrect because change tracking is required on the source table for the Cortex Search Service to function correctly and reflect updates to the base data.

NEW QUESTION # 147

A team is developing a critical business intelligence application that leverages Snowflake Cortex Analyst to provide natural language querying capabilities over complex structured data. To minimize operational costs while maintaining high accuracy, which of the following strategies are most effective for optimizing the cost efficiency of the Cortex Analyst service?

- A. Optimizing the semantic model YAML file by reducing the number of logical tables and columns to decrease the metadata processed by Cortex Analyst's LLMs per message.
- B. Using a smaller, less capable LLM as the underlying summarization agent for multi-turn conversations to reduce token processing costs, even if it slightly degrades conversational context.
- C. Configuring a custom instruction with a short, precise task description to reduce the input token count for the LLMs orchestrating SQL generation.
- D. Implementing a comprehensive Verified Query Repository (VQR) to guide Cortex Analyst towards pre-validated SQL queries for common questions, which ensures predictable execution and reduces LLM inference iterations.
- E. Leveraging Cortex Search Services integration within the semantic model to improve literal value matching, thereby reducing the need for Cortex Analyst to perform expensive fuzzy string matching or re-prompt the user.

Answer: D,E

Explanation:

Option B is correct because a Verified Query Repository (VQR) helps Cortex Analyst leverage pre-validated SQL for similar questions, improving accuracy and potentially reducing the number of LLM inference calls or complex reasoning steps required for SQL generation, thus making usage more efficient and reducing cost associated with less optimal LLM calls. Option D is correct because integrating Cortex Search Services improves literal search, helping Cortex Analyst find exact literal values needed for SQL queries more accurately and efficiently, which can reduce ambiguity and the need for multiple LLM iterations or incorrect queries, ultimately leading to more cost-effective message processing. Option A is incorrect: While using a smaller LLM might seem to save cost, Llama 3.1 70B was specifically chosen as the summarization agent for multi-turn conversations in Cortex Analyst due to its higher accuracy in rephrasing questions and avoiding errors, implying that a less capable model would degrade performance and potentially lead to more (and thus more expensive) overall messages to achieve a correct answer. The cost for Cortex Analyst is per message, not per token for this component. Option C is incorrect. While a well-scoped semantic model is recommended for accuracy, the sources do not explicitly state that reducing the number of logical tables and columns 'directly' reduces the per-message cost of Cortex Analyst, which is fixed per message. The impact would be indirect through improved accuracy or reduced processing complexity, but not a direct cost reduction based on metadata size for the fixed per-message billing. Option E is incorrect. Cortex Analyst cost is based on the number of messages, not the token count of prompts. While good prompt engineering (like concise custom instructions) is generally good practice, it does not directly reduce the per-message cost of Cortex Analyst as it would for token-based LLM calls.

NEW QUESTION # 148

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