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Snowflake SnowPro® Specialty: Gen AI Certification Exam Sample Questions (Q64-Q69):

NEW QUESTION # 64

A financial institution is fine-tuning a llama3.1-70b model within Snowflake Cortex using sensitive internal financial reports to improve sentiment analysis on earnings call transcripts. They need to understand the implications for data privacy, model ownership, and how this fine-tuned model can be managed and shared. Which of the following statements are true regarding this process?

- A. The fine-tuning process requires the explicit provisioning and management of a Snowpark-optimized warehouse with GPU resources by the institution.
- B. The resulting fine-tuned model (e.g., my_sentiment_model) is the exclusive property of the financial institution and cannot be accessed or used by any other Snowflake customer.
- C. Fine-tuned LLMs built with Cortex Fine-tuning are fully managed through the Snowflake Model Registry API, allowing for programmatic deployment, version control, and comprehensive lifecycle management.
- D. The fine-tuned model, being of type CORTEX_FINETUNED, can be shared with other Snowflake accounts using secure data sharing capabilities.
- E. The financial reports used for fine-tuning the llama3.1-7b model are securely isolated and are not used by Snowflake to train or re-train models for other customers.

Answer: B,D,E

Explanation:

Option A is correct. Snowflake's privacy principles state that your Usage and Customer Data (including inputs and outputs for fine-tuning) are NOT used to train, re-train, or fine-tune Models made available to others. Option B is correct. Fine-tuned models built using your data can only be used by you, ensuring exclusivity. Option C is correct. Models generated with Cortex Fine-tuning (specifically of the type) can be shared using Data Sharing. Option D is incorrect. While Cortex Fine-Tuned LLMs appear in the Model Registry's Snowsight UI, they are *not* managed by the Model Registry API. Option E is incorrect. Cortex Fine-tuning is described as a 'fully managed service' within Snowflake, which abstracts away much of the underlying infrastructure management like GPU resources, although a warehouse is selected for the job. Explicit provisioning and management of compute pools with GPUs is more characteristic of Snowpark Container Services for custom models.

NEW QUESTION # 65

A financial institution needs to process thousands of incoming PDF loan application forms daily, extracting applicant names, loan amounts, and submission dates, and loading them into a Snowflake table. They aim for continuous processing with minimal manual intervention. Which of the following statements correctly describe how Document AI can be used in an automated SQL pipeline for this purpose?

- A. To ensure continuous data ingestion and processing, a STREAM can be created on the stage to detect new PDF documents, triggering the TASK for extraction and subsequent loading into a Snowflake table.
- B. Document AI's PREDICT method natively supports all PDF files up to 500 MB and 500 pages, allowing for large-scale, single-query processing without requiring users to split documents into smaller chunks.
- C. The extracted information, including confidence scores and values, is returned as a JSON object, which can then be parsed into separate columns in a Snowflake table using SQL functions like LATERAL FLATTEN.
- D. The pipeline can leverage the <model build name> ! PREDICT method within a CREATE TASK statement to automatically process new PDFs as they arrive in an internal or external stage, once the Document AI model build is published.
- E. The SNOWFLAKE .DOCUMENT_INTELLIGENCE_CREATOR database role alone is sufficient for defining the model build and configuring the processing pipeline, without needing additional CREATE MODEL privileges on the schema.

Answer: A,C,D

Explanation:

Option A is correct because DocumentAI supports creating automated pipelines with tasks that call the method to extract information from documents in a stage. Option B is correct as streams are used to detect new data (e.g., PDFs) in a stage, and tasks can be set up to execute when new data is available in the stream, enabling continuous processing. Option E is correct because the 'PREDICT method returns its results as a JSON object, which typically contains 'score' and 'value' fields for extracted entities, and this JSON output can be parsed into separate columns using 'LATERAL FLATTEN'. Option C is incorrect as, in addition to the 'SNOWFLAKE.DOCUMENT_INTELLIGENCE_CREATOR database role, the role used must also have 'CREATE SNOWFLAKE.ML.DOCUMENT_INTELLIGENCE and 'CREATE MODEL' privileges on the schema where the model build is located. Option D is incorrect because DocumentAI has specific limitations on document size (max 50 MB) and page count (max 125 pages per document), and also limits processing to a maximum of 1000 documents in one query.

NEW QUESTION # 66

A financial institution wants to leverage Snowflake Cortex Agents to build an AI application for complex financial analysis, requiring interaction with both their structured transaction databases and unstructured legal documents, while also ensuring intelligent decision-making throughout the process. Which of the following accurately describe the foundational capabilities of Snowflake Cortex Agents?

- A. Allows integration of custom logic and external services through user-defined functions (UDFs) and stored procedures as custom tools.
- B. They incorporate a 'Reflection' component, allowing the agent to evaluate results after each tool use and determine the next logical steps, including iterating or clarifying.
- C. Cortex Agents enable direct fine-tuning of base LLMs using private customer data, with the resulting models managed within the Snowflake Model Registry.
- D. Agents are designed to orchestrate tasks by planning execution steps, and utilizing tools such as Cortex Analyst for structured data and Cortex Search for unstructured data.
- E. Cortex Agents primarily focus on providing a low-latency, hybrid (vector and keyword) search engine over text data.

Answer: A,B,D

Explanation:

Option B is correct because Cortex Agents orchestrate across structured and unstructured data sources, planning tasks and using tools like Cortex Analyst for structured data and Cortex Search for unstructured data. Option C is correct as 'Reflection' is a key component where the agent evaluates results after each tool use to determine next steps. Option E is correct because Cortex Agents allow the implementation of custom tools using stored procedures and user-defined functions (UDFs). Option A is incorrect; this describes Cortex Search, which is a tool that Cortex Agents can utilize, but not the primary, overarching capability of the agent itself. Option D is incorrect as this describes Cortex Fine-tuning, a separate capability for customizing LLMs, while agents use LLMs for orchestration.

NEW QUESTION # 67

A development team is constructing a Gen AI application using Snowflake Cortex LLM functions, particularly for conversational and text generation tasks. They are concerned about potential high costs due to token consumption. Which of the following strategies would most effectively help minimize token usage and optimize costs when working with these Cortex LLM functions?

- For multi-turn conversational experiences using `SNOWFLAKE.CORTEX.COMPLETE`, only send the most recent user prompt in each API call, as the model automatically retains previous context.
- When employing `AI_COMPLETE` for structured output tasks, providing concise and highly descriptive explanations for each field within the JSON schema will reduce the input tokens required for the LLM to understand and adhere to the schema accurately.
- Utilize the `COUNT_TOKENS` (`SNOWFLAKE.CORTEX`) helper function to pre-validate the prompt length against the model's context window, thereby preventing truncation errors and subsequent re-runs.
- To encourage more succinct LLM responses and reduce `completion_tokens`, configure the `temperature` option to a higher value (e.g., 0.7) in `COMPLETE` function calls.
- In multi-turn conversations within Cortex Analyst, integrate a dedicated LLM summarization agent to rephrase follow-up questions, which reduces the total conversational history passed as context to the main LLM.

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

Answer: C,D,E

Explanation:

Option B is correct because while schema validation itself doesn't incur extra cost, a large or complex schema can increase token consumption. Providing precise and concise descriptions for schema fields helps the LLM understand and adhere to the desired format more efficiently, potentially reducing the overall tokens consumed for accurate responses. Option C is correct as the 'COUNT_TOKENS' function allows developers to determine the token count of an input prompt for a specific model, enabling them to pre-emptively avoid exceeding the model's context window, thus preventing errors and wasted compute from re-runs. Option E is correct because for multi-turn conversations in Cortex Analyst, a summarization agent is specifically used to rephrase follow-up questions by incorporating previous context, without passing the entire, potentially long, conversation history. This significantly reduces the 'prompt_tokens' sent to the main LLM for each turn and optimizes inference times. Option A is incorrect because 'COMPLETE' (and 'TRY_COMPLETE') functions are stateless; to maintain conversational context, all previous user prompts and model responses must be included in the array, which increases token count proportionally. Simply sending the latest prompt would lose context. Option D is incorrect as setting a higher 'temperature' value (e.g., 0.7) increases the 'randomness and diversity' of the LLM's output, not necessarily its conciseness for cost optimization. For the most consistent (and often direct) results, a 'temperature' of 0 is recommended.

NEW QUESTION # 68

A Streamlit application developer wants to use `AI_COMPLETE` (the latest version of `COMPLETE` (`SNOWFLAKE.CORTEX`)) to process customer feedback. The goal is to extract structured information, such as the customer's sentiment, product mentioned, and any specific issues, into a predictable JSON format for immediate database ingestion. Which configuration of the `AI_COMPLETE` function call is essential for achieving this structured output requirement?

- › Including detailed instructions within the prompt string, such as 'Extract sentiment, product, and issues as a JSON object: { "sentiment": "...", "product": "...", "issues": "..." }'.
- › Setting the `temperature` option to 0 and `max_tokens` to a high value, which implicitly guides the LLM to produce structured output.
- › Utilizing the `response_format` argument with a JSON schema object that precisely defines the expected structure, data types, and required fields for the output.
- › Using the `AI_EXTRACT` function multiple times, once for each piece of information (sentiment, product, issues) to be extracted, and then manually combining the results into a JSON object.
- › Enabling the `guardrails` option with a custom validation rule to ensure the LLM's raw text output conforms to a JSON pattern.

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

Answer: D

Explanation:

'AI_COMPLETE Structured OutputS (and its predecessor 'COMPLETE Structured OutputS) specifically allows supplying a JSON schema as the 'response_format' argument to ensure completion responses follow a predefined structure. This significantly reduces the need for post-processing in AI data pipelines and enables seamless integration with systems requiring deterministic responses. The JSON schema object defines the structure, data types, and constraints, including required fields. For complex tasks, prompting the model to respond in JSON can improve accuracy, but the 'response_format' argument is the direct mechanism for enforcing the schema. Setting 'temperature to 0 provides more consistent results for structured output tasks. Option A is a form of prompt engineering, which can help but does not guarantee strict adherence as 'response_format does. Option B controls randomness and length, not output structure. Option D, while 'AI_EXTRACT (or EXTRACT ANSWER) can extract information, using it multiple times and then manually combining results is less efficient and less robust than a single 'AI_COMPLETE call with a structured output schema for multiple related fields. Option E's 'guardrails' are for filtering unsafe or harmful content, not for enforcing output format.

NEW QUESTION # 69

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