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Snowflake SnowPro® Specialty: Gen AI Certification Exam Sample Questions (Q163-Q168):

NEW QUESTION # 163

A Snowflake developer, 'AI _ ENGINEER', is creating a Streamlit in Snowflake (SiS) application that will utilize a range of Snowflake Cortex LLM functions, including SNOWFLAKE.CORTEX.COMPLETE, SNOWFLAKE.CORTEX.CLASSIFY.TEXT, and SNOWFLAKE.CORTEX.EMBED.TEXT. The application also needs to access data from tables within a specific database and schema. 'AI _ ENGINEER' has created a custom role, for the application to operate under. Which of the following privileges or roles are absolutely necessary to grant to for the successful execution of these Cortex LLM functions and interaction with the specified database objects? (Select all that apply.)

- A. The ACCOUNTADMIN role to ensure unrestricted access to all Snowflake Cortex features.
- B. The CREATE COMPUTE POOL privilege to provision resources for the Streamlit application.
- C. The SNOWFLAKE.CORTEX.USER database role, which provides the necessary permissions to call Snowflake Cortex AI functions.
- D. The CREATE SNOWFLAKE.ML.DOCUMENT_INTELLIGENCE privilege on the schema where the application resides.
- E. The USAGE privilege on the specific database and schema where the Streamlit application and its underlying data tables are located.

Answer: C,E

Explanation:

To execute Snowflake Cortex AI functions such as 'SNOWFLAKE.CORTEX.COMPLETE', 'SNOWFLAKE.CORTEX.CLASSIFY.TEXT', and (or their 'AI' prefixed counterparts), the role used by the application in this case) must be granted the 'SNOWFLAKE.CORTEX.USER' database role. Additionally, for the application to access any database or schema objects (like tables for data input/output or storing the Streamlit app itself), the 'USAGE' privilege must be granted on those specific database and schema objects. Option B, 'CREATE SNOWFLAKE.ML.DOCUMENT_INTELLIGENCE', is a privilege specific to creating Document AI model builds and is not required for general Cortex LLM functions. Option D, 'ACCOUNTADMIN', grants excessive privileges and is not a best practice for application roles. Option E, 'CREATE COMPUTE POOL', is a privilege related to Snowpark Container Services for creating compute pools, which is not directly required for running a Streamlit in Snowflake application that consumes Cortex LLM functions.

NEW QUESTION # 164

A Snowflake user attempts to access the Cortex Playground to experiment with LLM functions but receives an error indicating insufficient privileges. They have an active Snowflake session. Which of the following steps must be taken to ensure they can successfully use the Cortex Playground?

- The user's role must be granted the SNOWFLAKE.CORTEX.USER database role, which includes the necessary privileges to call Snowflake Cortex LLM functions.
- The CORTEX_MODELS_ALLOWLIST account parameter must be explicitly set to include the desired LLM, even if it is a Snowflake-hosted model.
- The user must first create a dedicated compute pool of instance family GPU_NV_M specifically for Cortex Playground operations.
- The CORTEX_ENABLED_CROSS_REGION parameter must be set to ANY_REGION if the user's account is not in one of the natively supported regions for Cortex LLM functions.
- The user needs to manually install the TruLens SDK in their environment, as it is a prerequisite for all Cortex AI Studio features.

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

Answer: A,B

Explanation:

To use the Cortex Playground, the user's role must be granted the 'CORTEX_USER' database role. Additionally, if the user's account is not in a region that natively supports the Cortex LLM functions, then cross-region inference must be enabled by setting the 'CORTEX_ENABLED_CROSS_REGION' parameter, for example, to 'ANY_REGION'. The 'CORTEX_MODELS_ALLOWLIST' parameter is used by administrators to restrict access to specific models, not to generally enable access to the Playground or all models. The Cortex Playground uses a selected warehouse to run SQL commands calling the 'COMPLETE' function, not a dedicated compute pool like 'GPU_NV_M', which is typically for Snowpark Container Services. The TruLens SDK is primarily used for AI Observability to instrument and evaluate generative AI applications, not for direct access to the Cortex Playground.

NEW QUESTION # 165

A developer is building a real-time chat application and wants to integrate a Large Language Model (LLM) hosted in Snowflake Cortex using its REST API. They need to send user prompts and receive streaming responses, ensuring secure authentication. Which of the following statements about using the Cortex REST API for the COMPLETE function are correct?

- The REST API endpoint for the COMPLETE function is `POST https://<account_identifier>.snowflakecomputing.com/api/v2/cortex/inference:complete` and requires a `Bearer <token>` in the `Authorization` header for authentication.
- To receive streaming responses, the `Accept` header in the request must be set to `application/json, text/event-stream`, and the request body should include `"stream": true` to enable streaming, as shown in tool calling examples.
- The `X-Snowflake-Authorization-Token-Type` header is mandatory for all requests and must explicitly specify the token type, such as `KEYPAIR_JWT` or `OAUTH`.
- For stateful conversational experiences, the developer must pass the entire conversation history, including previous user prompts and model responses, in the `messages` array in the request body, which will increase token consumption and cost.
- If the request exceeds the rate limits (Tokens Processed per Minute or Requests per Minute), Snowflake Cortex will return an HTTP 403 'Not Authorized' error.

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

Answer: A,B,C

Explanation:

Let's review each option: - Option A is correct. The REST API endpoint for the 'COMPLETE' (or 'AI_COMPLETE') function is `POST https://snowflakecomputing.com/api/v2/cortex/inference:complete`. Authentication requires an 'Authorization: Bearer' header, where the token can be a JWT, OAuth token, or programmatic access token. - Option B is correct. To receive streaming responses, the 'Accept' header should be set to 'application/json, text/event-stream'. Additionally, the request body should include `"stream": true` to enable streaming, as demonstrated in the tool calling example. - Option C is incorrect. The 'X-Snowflake-Authorization-Token-Type' header is **optional**; if omitted, Snowflake determines the token type by examining the token. - Option D is correct. 'COMPLETE' (and 'TRY_COMPLETE') functions do not retain state from one call to the next. To provide a stateful conversational experience, all previous user prompts and model responses in the conversation must be passed as part of the 'prompt_or_history' array (or 'messages' in the REST API request), which will proportionally increase the number of tokens processed and thus the costs. - Option E is incorrect. If the Snowflake Cortex LLM REST API request exceeds the rate limits (Tokens Processed per Minute or Requests per Minute), it will return an HTTP 429 'too many requests' status code, not 403. An HTTP 403 error typically indicates that the account is not enabled for the REST API or the calling role lacks the 'snowflake.cortex user' database role.

NEW QUESTION # 166

A data engineering team is building an automated pipeline in Snowflake to process customer reviews. They need to use AI_COMPLETE to extract specific details like product, sentiment, and issue type, and store them in a strictly defined JSON format for seamless downstream integration. They aim to maximize the accuracy of the structured output and manage potential model limitations. Which statements accurately reflect the best practices and characteristics when using AI_COMPLETE with structured outputs for this scenario?

- Specifying the `response_format` argument in `AI_COMPLETE` incurs an additional, separate compute cost for the overhead of verifying each token against the provided JSON schema.
- For complex data extraction tasks requiring high accuracy, it is recommended to explicitly include phrases like 'Respond in JSON' within the prompt, in addition to defining the `response_format` schema.
- When using OpenAI (GPT) models with structured outputs, the JSON schema defined in `response_format` must explicitly include `"additionalProperties": false` in every node and ensure the `"required"` field lists all properties in the schema.
- If the model's generated response slightly deviates from the specified JSON schema, `AI_COMPLETE` with structured outputs will automatically reformat the output to conform, preventing validation errors.
- To achieve the most consistent and deterministic results when using `AI_COMPLETE` for structured outputs, the `temperature` option should be set to 0.

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

- D. Option A
- E. Option E

Answer: A,C,E

Explanation:

Option A is incorrect because Structured Outputs do not incur additional compute cost for the overhead of verifying each AI_COMPLETE token against the supplied JSON schema, though the number of tokens processed (and thus billed) can increase with schema complexity. Option B is correct because for complex reasoning tasks, it is recommended to use the most powerful models and explicitly add 'Respond in JSON' to the prompt to optimize accuracy. Option C is correct as for OpenAI (GPT) models, the schema has specific requirements: response_format must be set to in every node, and the required field must include the names of every property in the schema. Option D additional Properties false is incorrect because AI_COMPLETE verifies each generated token against the JSON schema to ensure conformity, and if the model cannot generate a response that matches the schema, it will result in a validation error. Option E is correct as setting the option to e is recommended for temperature the most consistent results, regardless of the task or model, especially for structured outputs.

NEW QUESTION # 167

An administrator is reviewing their Snowflake bill and observes higher than expected storage and cloud services compute costs for a newly deployed Cortex Search Service. They need to investigate these charges. Which of the following statements correctly explains how these specific costs are incurred or can be monitored for a Cortex Search Service?

- A. Storage costs are incurred for both the materialized source query data and the search index data structures, and these costs can be estimated by materializing the source query into a table using the CORTEX_SEARCH_DATA_SCAN table function, and then examining the size of that table.
- B. High cloud services compute costs for Cortex Search are primarily driven by the complexity of the embedding model selected and can be optimized by choosing a simpler model.
- C. Cloud Services compute costs for Cortex Search are always billed without any adjustments, regardless of the daily virtual warehouse compute costs, because they are considered serverless features.
- D. The 'CORTEX_SEARCH_DAILY_USAGE_HISTORY' view provides detailed breakdowns of storage costs per TB and cloud services compute credits incurred, including the 10% daily warehouse cost adjustment.
- E. The 'CORTEX_DOCUMENT_PROCESSING_USAGE_HISTORY' view is the most appropriate tool to monitor Cortex Search storage and cloud services compute costs, as it tracks all 'Services' usage.

Answer: A

Explanation:

Option B is correct: Storage costs for Cortex Search cover the materialized results of the source query and the search index, which are stored in the user's account. Snowflake documentation explicitly states that the size of this stored data can be estimated by materializing the source query into a table using the 'CORTEX_SEARCH_DATA_SCAN' table function (or similar process) and then examining its size. Option A is incorrect: While tracks some usage, the provided sources do not detail its capability for granular breakdowns of storage per TB or explicitly show the 10% cloud services adjustment applied to Cortex Search specifically. The view shows aggregate AI_SERVICES usage. Option C is incorrect: Cloud Services compute for Cortex Search is subject to the constraint that Snowflake only bills if the daily cloud services cost exceeds 10% of the daily warehouse cost for the account. Option D is incorrect: Cloud services compute costs for Cortex Search are primarily influenced by the data's change rate and the 'TARGET_LAG', not the complexity of the embedding model. Embedding model complexity impacts 'EMBED_TEXT_TOKENS' costs. Option E is incorrect: The view tracks Document 'processing function activity, not cortex Search costs. The appropriate view for overall 'Services' usage is 'METERING_DAILY_HISTORY', and for more specific Cortex Search usage, would be relevant for tokens, but B specifically addresses how to 'estimate' storage, not just monitor.

NEW QUESTION # 168

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