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Snowflake SnowPro® Specialty: Gen AI Certification Exam Sample Questions (Q238-Q243):

NEW QUESTION # 238

A Snowflake administrator is tasked with monitoring and optimizing costs for various Gen AI applications leveraging Snowflake Cortex LLM functions. They need to generate a report detailing token consumption for individual API calls to identify high-usage patterns and specific models. Which of the following Snowflake account usage views or methods would provide the most granular insights into prompt, completion, and guardrail token usage for Cortex LLM function calls?

- ☐ `SNOWFLAKE.ORGANIZATION_USAGE.METERING_DAILY_HISTORY` filtered by `SERVICE_TYPE = 'AI_SERVICES'` to see daily aggregated token counts across all AI services.
- ☐ Querying the `SNOWFLAKE.ACCOUNT_USAGE.CORTEX_FUNCTIONS_QUERY_USAGE_HISTORY` view, specifically looking at the `PROMPT_TOKENS`, `COMPLETION_TOKENS`, and `GUARD_TOKENS` columns.
- ☐ Using the `SNOWFLAKE.CORTEX.COUNT_TOKENS` function to estimate token counts for input prompts before submitting them to LLM functions.
- ☐ Inspecting the `usage` object returned by the `COMPLETE` or `AI_COMPLETE` function call, which includes `prompt_tokens`, `completion_tokens`, and potentially `guard_tokens`.
- ☐ Analyzing the `CORTEX_DOCUMENT_PROCESSING_USAGE_HISTORY` view to determine token usage for `AI_COMPLETE` functions processing multimodal inputs.

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

Answer: C,D

Explanation:

Option B is correct because the `SNOWFLAKE.ACCOUNT_USAGE.CORTEX_FUNCTIONS_QUERY_USAGE_HISTORY` view provides granular usage information including `prompt_tokens`, `completion_tokens`, and `guard_tokens` for individual Cortex LLM function calls and the models used. Option D is correct as the `COMPLETE` (and `AI_COMPLETE`) function, when called with `show_details => TRUE` or options are provided, returns a JSON object that includes a `usage` key, which contains `completion_tokens`, `prompt_tokens`, and `total_tokens`. If Cortex Guard is enabled, it also includes `guard_tokens`. Option A is incorrect because `METERING_DAILY_HISTORY` provides aggregated daily credit consumption for AI services, not granular token counts per query. Option C is a helper function to count tokens for cost estimation "before" a call, not for tracking usage "after" a call. Option E is incorrect because `CORTEX_DOCUMENT_PROCESSING_USAGE_HISTORY` tracks Document AI processing functions like `!PREDICT`, `PARSE_DOCUMENT`, and `AI_EXTRACT`, not `AI_COMPLETE` for multimodal inputs.

NEW QUESTION # 239

A data engineer is configuring a Document AI pipeline to process scanned PDF invoices stored in an internal stage named 'invoice_docs_stage'. After uploading the PDF files, they execute an extracting query using `!PREDICT`. The query consistently returns the error:

```
{ "_processingErrors": [ "File extension does not match actual mime type. Mime-Type: application/octet-stream" ] }
```

Which of the following is the most likely cause of this error?

- A. The PDF documents exceed the maximum allowed file size of 50 MB.
- B. The internal stage was not created with `'SNOWFLAKE_SSE'` encryption enabled.
- C. The `'GET_PREIGNED_URL'` function used in the `!PREDICT` query has an expired URL.
- D. The documents contain non-English text, which is not fully supported by Document AI for optimal results.
- E. The Document AI model build is attempting to process more than 1000 documents in a single query.

Answer: B

Explanation:

The error message 'File extension does not match actual mime type. Mime-Type: application/octet-stream' is a specific error documented for DocumentAI when internal stages are not created with `'SNOWFLAKE_SSE'` encryption. For internal stages, Document AI requires server-side encryption to be enabled. Options A, C, and D would typically result in different error messages or behaviors. Option E refers to language support, which might impact accuracy but is not the cause of a file format identification error.

NEW QUESTION # 240

A development team plans to utilize Snowpark Container Services (SPCS) for deploying a variety of AI/ML workloads, including custom LLMs and GPU-accelerated model training jobs. They are in the process of creating a compute pool and need to select the appropriate instance families and configurations. Which of the following statements about `'CREATE COMPUTE POOL'` in SPCS are accurate?

- A. Setting `'AUTO RESUME = TRUE'` ensures that the compute pool automatically starts when a service or job is submitted

to it, rather than requiring manual resumption.

- B. The 'MIN NODES' and 'MAX NODES' parameters define the scaling range for the compute pool, and Snowflake automatically scales the pool within this range based on workload demand.
- C. For cost optimization, 'AUTO SUSPEND SECS = 0' should be used to prevent automatic suspension of the compute pool, as suspension and resumption incur minimum billing durations.
- D. To support GPU-accelerated LLM inference and training, the 'INSTANCE_FAMILY' must be selected from a type starting with 'GPU' (e.g.,



- E. Snowpark-optimized warehouses are the recommended compute pool type for all large-scale ML training workloads within SPCS due to their enhanced memory limits and CPU architectures.

Answer: A,D

Explanation:

Option A is correct. GPU-accelerated workloads, such as LLM inference and model training, require instance families specifically designed with GPUs. The documentation lists instance family names starting with 'GPU' for this purpose, such as 'GPU_GCP_NV_L4'. Option B is incorrect. While 'MIN NODES' and 'MAX NODES' define the range, the size of compute clusters in Snowpark Container Services does "not" auto-scale dynamically based on workload demand. Users must manually alter the number of instances at runtime using commands like 'ALTER SERVICE MIN INSTANCES = s'. Snowflake does handle load balancing across instances within the configured node counts. Option C is incorrect. The 'AUTO_RESUME = TRUE' parameter, when specified during compute pool creation, enables the pool to automatically resume operation when a service or job is submitted, removing the need for explicit 'ALTER COMPUTE POOL RESUME' commands. Option D is incorrect. Setting 'AUTO_SUSPEND = 0' prevents the compute pool from automatically suspending, meaning it will continue to consume credits even when idle. This would generally lead to higher costs, not cost optimization, unless the pool is constantly active. The default is 3600 seconds (1 hour). SPCS Compute Nodes have a minimum charge of five minutes when started or resumed, making intelligent use of auto-suspend important for cost management. Option E is incorrect. Snowpark-optimized warehouses are a type of 'virtual warehouse' and are recommended for Snowpark workloads with large memory requirements or specific CPU architecture, typically for single-node ML training workloads 'within a warehouse'. SPCS compute pools, however, provide their own dedicated instance families (CPU, HighMemory, GPU) for containerized workloads, abstracting the underlying infrastructure and supporting distributed GPU clusters directly within SPCS, not Snowpark-optimized warehouses as a 'compute pool type' for SPCS.

NEW QUESTION # 241

A data science team is developing an internal LLM to classify legal documents. They previously used a general-purpose LLM, but found its performance for their specific legal domain to be inconsistent, leading to high error rates and increased manual review. They decide to fine-tune a model using Snowflake Cortex Fine-tuning to improve accuracy and reduce latency for real-time document classification. Which base model, among those available for fine-tuning via SNOWFLAKE.CORTEX.FINETUNE, is explicitly noted for its low latency and high throughput processing, making it a strong candidate for this use case, especially for multi-page text classification?

llama3-70b

known for its general reasoning and large context window, is ideal for comprehensive understanding of legal documents.

mistral-8x7b

optimized for text generation and classification with low memory requirements, translating to higher throughput for enterprise use cases.

llama3.1-8b

a cost-effective model, suitable for its large context window, making it adaptable to varied legal document lengths.

mistral-7b

specifically highlighted for low latency and high throughput processing for multiple pages of text, with a 32K context window, ideal for summarization, structuration, and question answering tasks that need to be done quickly.

snowflake-arctic

Snowflake's top-tier enterprise LLM, excelling at SQL generation and instruction following benchmarks.

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

Answer: C

Explanation:

Option D is correct. The sources explicitly state that mistral-7b

is 'ideal for your simplest summarization, structuration, and question answering tasks that need to be done quickly. It offers low latency and high throughput processing for multiple pages of text with its 32K context window'. This description directly aligns with the scenario's requirement for improved accuracy and reduced latency for real-time document classification, particularly for multi-page legal documents. Option A is incorrect because while

llama3-70b

is available for fine-tuning and suitable for content creation and chat applications, it is not specifically noted for low latency and high throughput processing for multi-page text classification in the same way as

Option B is incorrect because, while mistral-8x7b

is indeed optimized for low latency with low memory requirements and suitable for classification, the description for mistral-7b

more directly addresses the 'multiple pages of text' aspect of the classification task. Option C is incorrect;

llama3.1-8b

is a cost-effective model with a large context window, but its performance for low latency and high throughput for multi-page text classification is not highlighted to the same extent as mistral-7b

Option E is incorrect because

is Snowflake's top-tier enterprise LLM excelling at SQL generation, coding, and instruction following, but it is not listed as a base model available for fine-tuning with SNOWFLAKE.CORTEX.FINETUNE.

NEW QUESTION # 242

A new Gen AI team member attempts to use Document AI to process a batch of 1,500 scanned image files (JPG) that are 70 MB each, stored in an internal stage that was created without specifying an encryption type. Their 'PREDICT' queries consistently fail with various errors. Which of the following are valid reasons for the 'PREDICT' queries to fail in this scenario?

- A. Processing 1,500 documents in one query exceeds the maximum limit for Document AI.
- B. JPG is an unsupported file format for Document AI.
- C. The individual JPG files exceed the maximum supported file size for Document AI.

- D. The internal stage was not created with 'ENCRYPTION = (TYPE = 'SNOWFLAKE SSE', which is a requirement for Document AI.
- E. The team member's role lacks the database role, which is essential for using Document AI functions.

Answer: A,C,D,E

Explanation:

Option A is correct because internal stages used with Document AI must specify 'ENCRYPTION = (TYPE = 'SNOWFLAKE_SSE')' when created. Option B is correct as the database role is required for the account role to use Document AI functions to extract information. Option C is correct because Document AI supports processing a maximum of 1,000 documents in one query, so 1,500 documents would exceed this limit. Option D is correct because documents processed by Document AI must be 50 MB or less in size, and the 70 MB files exceed this limit. Option E is incorrect because JPG is listed as a supported file format for Document AI.

NEW QUESTION # 243

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