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Snowflake SnowPro® Specialty: Gen AI Certification Exam Sample Questions (Q249-Q254):

NEW QUESTION # 249

An enterprise is deploying a new RAG application using Snowflake Cortex Search on a large dataset of customer support tickets. The operations team is concerned about managing compute costs and ensuring efficient index refreshes for the Cortex Search Service, which needs to be updated hourly. Which of the following considerations and configurations are relevant for optimizing cost and performance of the Cortex Search Service in this scenario?

- **A. CHANGE_TRACKING**
- **B. For embedding text, selecting a model like**



- C. The primary cost driver for Cortex Search is the number of search queries executed against the service, with the volume of indexed data (GB/month) having a minimal impact on overall billing.
- D. The
- E. For optimal performance and cost efficiency, Snowflake recommends using a dedicated warehouse of size no larger than MEDIUM for each Cortex Search Service.

Answer: A,B,D,E

Explanation:

Option A is correct because a Cortex Search Service requires a virtual warehouse to refresh the service, which runs queries against base objects when they are initialized and refreshed, incurring compute costs. Option B is correct because the cost of embedding models varies. For example, 'snowflake-arctic-embed-m-v1.5' costs 0.03 credits per million tokens, while 'voyage-multilingual-2' costs 0.07 credits per million tokens. Choosing a more cost-effective model like 'snowflake-arctic-embed-m-v1.5' for English-only data can reduce token costs. Option C is correct because Snowflake recommends using a dedicated warehouse of size no larger than MEDIUM for each Cortex Search Service to achieve optimal performance. Option D is correct because change tracking is required for the Cortex Search Service to be able to detect and process updates to the base table, enabling incremental refreshes that are more efficient than full re-indexing. Option E is incorrect because Cortex Search Services incur costs based on virtual warehouse compute for refreshes, 'EMBED_TEXT_TOKENS' cost per input token, and a charge of 6.3 Credits per GB/mo of indexed data. The volume of indexed data has a significant impact, not minimal.

NEW QUESTION # 250

A data engineer is tasked with establishing AI Observability for a generative AI application that integrates with external systems and will undergo continuous improvement. The goal is to compare different iterations of the application efficiently. Which combination of configuration best practices, features, and governance aspects are most relevant for a robust setup of AI Observability within Snowflake for this scenario?

- A. To compare different LLMs or prompt configurations, rely on the AI Observability's 'Comparisons' feature, which allows side-by-side analysis of evaluation metrics across multiple evaluations.
- B. Run the AI Observability project directly within a Snowflake Notebook to leverage its integrated environment for easier debugging and iteration.
- C. If the AI Observability service is not natively available in the primary region, enable to 'ANY_REGION' or a specific supported region to allow tracing and evaluation to proceed.
- D. Ensure the Python environment includes 'trulens-core', 'trulens-connectors-snowflake', and 'trulens-providers-cortex' (version 2.1.2 or later) and set the environment variable TRULENS_OTEL_TRACING to 1.
- E. For access control, the role used to create and execute runs must be granted the 'SNOWFLAKE.CORTEX_USER' database role and the 'AI_OBSERVABILITY_EVENTS_LOOKUPS' application role.

Answer: A,C,D,E

Explanation:

Option A is correct because installing the specified TruLens Python packages (version 2.1.2 or later) and setting STRULENS_OTEL_TRACINGS to 1 are prerequisites for instrumenting the application and enabling tracing for AI Observability. Option B is correct because the 'CORTEX_USER' database role and application role are explicitly required for creating and executing runs for AI Observability. Option C is correct as the 'Comparisons' feature is a core component of AI Observability, designed precisely for assessing and comparing application quality, accuracy, and performance across various LLMs, prompts, and configurations. Option D is correct because AI Observability, like other Cortex LLM Functions, might require 'CORTEX_ENABLED_CROSS_REGION' to be configured if the service or specific LLMs are not natively available in the primary Snowflake region. Option E is incorrect because the sources explicitly state that you cannot run your project using the TruLens SDK in a Snowflake Notebook for AI Observability.

NEW QUESTION # 251

A security-conscious data scientist in an Azure East US 2 (Virginia) account wants to fine-tune a mistral-7b model for a specific text summarization task and then deploy it for real-time inference using the Cortex REST API. The mistral-7b base model is natively available for fine-tuning in Azure East US 2 (Virginia). For subsequent inference using the fine-tuned model, they need to understand the regional and cross-region inference considerations. Which of the following statements are correct?

- ☐ The fine-tuning job for mistral-7b can proceed in Azure East US 2 (Virginia) as it is a supported region for the FINETUNE ('CREATE') function.
- ☐ To use the fine-tuned mistral-7b model for inference via the Cortex REST API in a region where the base mistral-7b model is not natively supported, the CORTEX_ENABLED_CROSS_REGION account parameter must be configured.
- ☐ User inputs and outputs for inference requests to the fine-tuned model via cross-region inference will be stored or cached within the remote processing region to optimize performance.
- ☐ The cost for inference on the fine-tuned mistral-7b model will be based on the number of tokens processed for both prompt and completion, with an additional charge for Cortex Guard tokens if enabled.
- ☐ Snowflake Copilot, another Gen AI feature, also supports cross-region inference and its availability can be controlled by the CORTEX_ENABLED_CROSS_REGION parameter.

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

Answer: A,C,D,E

Explanation:

Option A is correct. Azure East US 2 (Virginia) is explicitly listed as a supported region for the FINETUNE ('CREATE') function for base models like mistral-7b. Option B is correct because support for inference of fine-tuned models is available in regions that support the COMPLETE function for the base model, and the CORTEX_ENABLED_CROSS_REGION parameter enables inference requests to be processed in a different region from the default. The Cortex REST API is an interface for the COMPLETE function. Option C is incorrect; user inputs, service generated prompts, and outputs are not stored or cached during cross-region inference. Option D is correct because for functions that generate new text, such as inference with a fine-tuned model (which uses AI_COMPLETE), both input and output tokens are billable. If Cortex Guard is enabled, its usage incurs an additional cost for tokens. Option E is correct as Snowflake Copilot's availability in unsupported regions can be enabled by setting the CORTEX_ENABLED_CROSS_REGION parameter.

NEW QUESTION # 252

A financial institution uses Snowflake Cortex Analyst with strict role-based access control (RBAC) on their Snowflake-hosted LLMs. The security team has granted specific 'CORTEX-MODEL-ROLE' application roles to different analyst teams, ensuring they only access approved models. A new requirement arises to enable Azure OpenAI GPT models for Cortex Analyst to leverage a specific feature. An administrator proceeds to execute:

```
USE ROLE ACCOUNTADMIN;  
ALTER ACCOUNT SET ENABLE_CORTEX_ANALYST_MODEL_AZURE_OPENAI = TRUE;
```

Which of the following statements accurately describe the implications of this change?

- ☐ Enabling ENABLE_CORTEX_ANALYST_MODEL_AZURE_OPENAI will allow Cortex Analyst to use Azure OpenAI models, and the existing model-level RBAC policies for Snowflake-hosted models will continue to apply to those models.
- ☐ When 'ENABLE_CORTEX_ANALYST_MODEL_AZURE_OPENAI' is 'TRUE', Cortex Analyst can use Azure OpenAI models, but model-level RBAC becomes unavailable for *all* models used by Cortex Analyst, including Snowflake-hosted ones.
- ☐ User prompts and semantic model metadata will be transmitted outside of Snowflake's governance boundary if Azure OpenAI models are used by Cortex Analyst after this parameter is enabled.
- ☐ This parameter is only relevant for the 'AI_COMPLETE' function and does not affect model access within Cortex Analyst.
- ☐ The 'ALTER ACCOUNT' command for this parameter can be executed by any role with 'MODIFY ACCOUNT' privileges, not exclusively 'ACCOUNTADMIN'.

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

Answer: A,E

Explanation:

Option B is correct because when 'ENABLE CORTEX_ANALYST' is , Cortex Analyst can use Azure OpenAI models, but this setting is incompatible with model-level RBAC, meaning RBAC is not available for any models used by Cortex Analyst when this

parameter is enabled. Option C is correct because if Azure OpenAI models are opted in for Cortex Analyst, semantic model files (metadata) and user prompts will be processed by Microsoft Azure, a third party, thus transmitting them outside Snowflake's governance boundary. Customer data itself is not shared with Azure. Option A is incorrect because the parameter is incompatible with model-level RBAC for models used by Cortex Analyst. Option D is incorrect as the parameter specifically controls the use of Azure OpenAI models within Cortex Analyst. Option E is incorrect because this parameter can only be set by the 'ACCOUNTADMIN' role.

NEW QUESTION # 253

A business intelligence team wants to enable non-technical users to query their Snowflake data using natural language for sales analytics reports via Cortex Analyst. They are designing the YAML semantic model. Which of the following statements accurately describe key aspects of designing and utilizing a semantic model for Cortex Analyst?

- A. Dimensions in the semantic model YAML, such as 'state' or 'product_category', can include synonyms to map common business terms to underlying technical column names, thereby improving natural language understanding for users.
- B. facts in a semantic model are primarily used to define categorical data, such as product types or customer segments, to support filtering operations.
- C. The VARIANT, OBJECT, GEOGRAPHY, and ARRAY data types are fully supported for dimension and fact columns within a semantic model, offering flexibility for diverse data structures.
- D. To optimize performance, Snowflake recommends including all available tables and columns from the underlying database in a semantic model, especially for complex analytical tasks.
- E. The base_table field in a logical table definition must directly reference a physical table and cannot point to a view, as Cortex Analyst only works with raw tables for performance reasons.

Answer: A

Explanation:

Option A is incorrect because a logical table in a semantic model can represent either a physical database table or a view. Option B is correct; dimensions can include synonyms to help map natural language questions to technical terms, enhancing query accuracy. Option C is incorrect as the 'VARIANT', 'OBJECT', 'GEOGRAPHY', and 'ARRAY' data types are currently not supported for dimension or fact columns in a semantic model. Option D is incorrect; 'facts' describe numerical values (e.g., revenue, salary), while 'dimensions' describe categorical values (e.g., state, user_type). Option E is incorrect because for performance reasons, Snowflake recommends starting with a small number of tables and columns (not more than 10 tables or 50 columns) and expanding gradually.

NEW QUESTION # 254

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