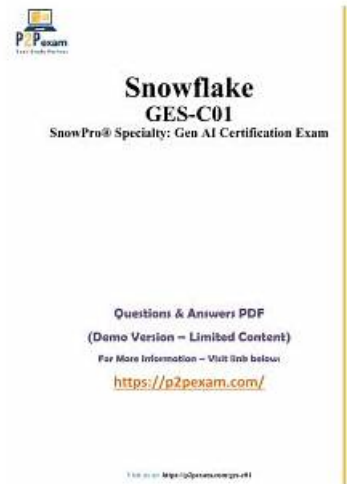


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## Snowflake SnowPro® Specialty: Gen AI Certification Exam Sample Questions (Q37-Q42):

### NEW QUESTION # 37

A development team is preparing to deploy a new Retrieval-Augmented Generation (RAG) application written in Python. They intend to use Snowflake AI Observability with the TruLens SDK to capture detailed logs and traces for debugging and performance analysis. Which of the following configurations are essential prerequisites for enabling this logging capability effectively?

- ☐ The Python environment must have the `TRULENS_OTEL_TRACING` environment variable set to `1` before establishing a connection to Snowflake.
- ☐ The Python project requires the installation of `trulens-core`, `trulens-connectors-snowflake`, and `trulens-providers-cortex` packages, with versions 2.1.2 or later.
- ☐ The account role used for the application must be granted both the `SNOWFLAKE.CORTX_USER` database role and the `AI_OBSERVABILITY_EVENTS_LOOKUP` application role.
- ☐ The application must be designed to run exclusively within a Snowflake Notebook, as this environment automatically streams logs to AI Observability.
- ☐ The role performing the operations must have the `CREATE EXTERNAL AGENT` and `CREATE TASK` privileges on the schema where the application objects reside, in addition to the global `EXECUTE TASK` privilege.

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

**Answer: A,B,C,D**

Explanation:

To enable AI Observability for a Python application in Snowflake, several prerequisites must be met. The Python environment needs the `TRULENS_OTEL_TRACING` environment variable set to `1`. Essential Python packages, specifically `trulens-core`, `trulens-connectors-snowflake`, and `trulens-providers-cortex`, must be installed with version 2.1.2 or later. The Snowflake account role used requires the `SNOWFLAKE.CORTX_USER` database role and the `AI_OBSERVABILITY_EVENTS_LOOKUP` application role. Additionally, the role needs specific privileges: `CREATE EXTERNAL AGENT` and `CREATE TASK` on the schema, and `EXECUTE TASK` globally. It is explicitly stated that the project cannot be run in a Snowflake Notebook for these features to work, making option D incorrect.

### NEW QUESTION # 38

Considering Snowflake's Gen AI principles for cost governance within Snowflake Cortex, an ML engineer is assessing the expenditure for an LLM fine-tuning job. Which option correctly identifies how compute costs for Cortex Fine-tuning are primarily incurred and how fine-tuned models are treated regarding usage by other customers?

- A. Fine-tuning costs are a flat monthly fee, irrespective of token usage or model size. Fine-tuned models become part of Snowflake's proprietary models after training.
- B. Compute costs for fine-tuning are based on the number of tokens used in training, calculated as 'number of input tokens number of epochs trained'. Fine-tuned models built using a customer's data are available exclusively for that customer's use.
- C. Only inference using fine-tuned models incurs costs, not the training itself. Fine-tuned models can be openly shared on the Snowflake Marketplace.
- D. Costs are based on the number of fine-tuning jobs created, not tokens. Fine-tuned models are shared across all Snowflake customers to improve the general service.
- E. Costs are incurred per hour of compute pool usage, similar to virtual warehouses. Fine-tuned models are anonymized and used to train future foundation models for all customers.

**Answer: B**

Explanation:

Snowflake Cortex Fine-tuning incurs compute cost based on the number of tokens used in training. Specifically, fine-tuning trained tokens are calculated as 'number of input tokens number of epochs trained'. Furthermore, fine-tuned models built using your data are available exclusively for your use and are not used to train, re-train, or fine-tune Models made available to others.

### NEW QUESTION # 39

A Snowflake administrator needs to implement a granular access control strategy for LLMs. The general policy is to restrict access to a select few models via an account-level allowlist. However, a specific data science team (using role 'DATA SCIENCE TEAM ROLE') requires access to the 'claude-3-5-sonnet' model, which should not be available to other users or globally via the allowlist. Given this scenario, which set of commands would correctly establish this access control while adhering to the specified requirements?

• A.

```
USE ROLE SECURITYADMIN;  
GRANT SNOWFLAKE.CORTEX_USER TO ROLE DATA_SCIENCE_TEAM_ROLE;  
ALTER ACCOUNT SET CORTEX_MODELS_ALLOWLIST = 'claude-3-5-sonnet';
```

• B.

```
USE ROLE SYSADMIN;  
ALTER ACCOUNT SET CORTEX_MODELS_ALLOWLIST = 'claude-3-5-sonnet';  
REVOKE APPLICATION ROLE SNOWFLAKE."CORTEX-MODEL-ROLE-CLAUDE-3-5-SONNET" FROM ROLE PUBLIC;
```

• C.

```
USE ROLE ACCOUNTADMIN;  
ALTER ACCOUNT SET CORTEX_MODELS_ALLOWLIST = ''; -- Clean allowlist  
GRANT APPLICATION ROLE SNOWFLAKE."CORTEX-MODEL-ROLE-CLAUDE-3-5-SONNET" TO ROLE DATA_SCIENCE_TEAM_ROLE;  
GRANT USAGE ON ALL MODELS IN SCHEMA SNOWFLAKE.MODELS TO ROLE DATA_SCIENCE_TEAM_ROLE;
```

• D.

```
USE ROLE ACCOUNTADMIN;  
ALTER ACCOUNT SET CORTEX_MODELS_ALLOWLIST = 'mistral-large2, snowflake-arctic';  
GRANT USAGE ON MODEL SNOWFLAKE.MODELS."CLAUDE-3-5-SONNET" TO ROLE DATA_SCIENCE_TEAM_ROLE;
```

• E.

```
USE ROLE ACCOUNTADMIN;  
ALTER ACCOUNT SET CORTEX_MODELS_ALLOWLIST = 'mistral-large2, snowflake-arctic';  
CALL SNOWFLAKE.MODELS.CORTEX_BASE_MODELS_REFRESH();  
GRANT APPLICATION ROLE SNOWFLAKE."CORTEX-MODEL-ROLE-CLAUDE-3-5-SONNET" TO ROLE DATA_SCIENCE_TEAM_ROLE;
```

**Answer: E**

Explanation:

Option A is correct. This sequence of commands first sets an account-level allowlist for 'mistral-large2' and 'snowflake-arctic', thereby restricting general access to other models for plain-name string lookups. The 'CALL' ensures the changes are applied. It then explicitly grants the DATA\_SCIENCE\_TEAM ROLES access to the 'claude-3-5-sonnet' model object using its dedicated application role 'SNOWFLAKE."CORTEX-MODEL-ROLE-CLAUDE-3-5-SONNET"'. This ensures 'claude-3-5-sonnet' is accessible only to that specific role and not globally through the allowlist, fulfilling the granular access requirement. Option B is incorrect because 'ALTER ACCOUNT' operations require the 'ACCOUNTADMIN' role, not 'SYSADMIN'. Additionally, setting to 'claude-3-5-sonnet' would make it globally available, contradicting the requirement for restricted access. Option C is incorrect because model-level RBAC for base models in 'SNOWFLAKE.MODELS' is primarily applied using application roles (e.g., 'CORTEX-MODEL-ROLE'), not directly with 'GRANT USAGE ON MODEL'. Option D is incorrect. While clearing the allowlist is a valid part of a strategy, 'GRANT USAGE ON ALL MODELS IN SCHEMA SNOWFLAKE.MODELS' would grant access to 'all' models in that schema, which contradicts the requirement for 'claude-3-5-sonnet' to be exclusive to the data science team and not generally available. Option E is incorrect because 'ALTER ACCOUNT' requires the 'ACCOUNTADMIN' role, not 'SECURITYADMIN', and setting the allowlist to 'claude-3-5-sonnet' would make it generally available, violating the isolation requirement.

#### NEW QUESTION # 40

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. The retrieved context from Cortex Search should be directly concatenated with the user's prompt as input to the
- B. Using the
- C. To maintain conversational context in a multi-turn chat, the developer should pass all previous user prompts and model responses in the
- D. The

```
SNOWFLAKE.CORTEX.EMBED_TEXT()
```

- E. For performance and cost optimization, it is always recommended to query Cortex Search and the LLM function within a single

**Answer: B,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 'prompt\_or\_history' 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 # 41

A data engineering team is building a Retrieval Augmented Generation (RAG) pipeline that heavily relies on 'SNOWFLAKE.CORTEX.EMBED\_TEXT\_768' to process millions of documents daily. They need to optimize for both cost and retrieval quality. Which of the following statements are true regarding the cost and performance of 'EMBED\_TEXT\_768' in Snowflake? (Select all that apply)

- A. The 'snowflake-arctic-embed-m-v1.5' model, used by 'EMBED\_TEXT\_768', has a context window of 512 tokens, and texts exceeding this length are truncated before embedding.
- B. The 'EMBED\_TEXT\_768' function is billed based on the number of 'output tokens' generated by the embedding model, as this represents the computational complexity of the vector.
- C. For optimal retrieval quality in RAG scenarios, text should be split into chunks of no more than 512 tokens before being passed to 'EMBED\_TEXT\_768', even if the model supports a larger context window.
- D. To minimize costs for 'EMBED\_TEXT\_768' operations, it is recommended to execute queries using a smaller virtual warehouse (no larger than MEDIUM), as larger warehouses do not improve performance for these functions.
- E. The 'EMBED\_TEXT\_768' function, regardless of the 768-dimension model used, has a fixed cost of 1.50 Credits per one million Tokens processed.

**Answer: A,C,D**

Explanation:

Option B is correct because Snowflake recommends executing queries that call Cortex AISQL functions, including, with a smaller warehouse (no larger than MEDIUM). Larger warehouses do not increase performance for these functions. Option C is correct because the 'snowflake-arctic-embed-m-v1.5' model, which can be used with 'EMBED\_TEXT\_768', has a context window of 512 tokens. Input text exceeding this limit is truncated before embedding. Option D is correct because, for best search results with Cortex Search and RAG, Snowflake recommends splitting the text into chunks of no more than 512 tokens. This smaller chunk size typically results in higher retrieval and downstream LLM response quality. Option A is incorrect because for functions, only 'input tokens' are counted towards the billable total, not output tokens. Option E is incorrect because the cost for models (such as 'e5-base-v2', 'snowflake-arctic-embed-m', 'snowflake-arctic-embed-m-v1.5') is 0.03 Credits per one million Tokens processed. The 1.50 Credits per one million Tokens applies to the 'TRANSLATE' function, not 'EMBED\_TEXT\_768'.

#### NEW QUESTION # 42

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