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## Snowflake SnowPro® Specialty: Gen AI Certification Exam Sample Questions (Q245-Q250):

NEW QUESTION # 245

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

**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 # 246

An ML engineer is deploying a custom PyTorch-based image classification model, obtained from Hugging Face, to Snowpark Container Services (SPCS). The deployment requires GPU acceleration on a compute pool named 'my\_gpu\_pool' and specific Python packages ('torch', 'transformers', 'opencv-python'). The scenario dictates that 'opencv-python' is only available via PyPI, while 'torch' and 'transformers' can be sourced from either conda-forge or PyPI. The engineer uses the Snowflake Model Registry to log the model. Which of the following configurations correctly specify the necessary Python dependencies and GPU utilization for this inference service, adhering to Snowflake's recommendations?

```
conda_model = reg.log_model(  
    my_hf_model,  
    model_name="image_classifier",  
    version_name="v4",  
    conda_dependencies=["pytorch", "transformers", "opencv-python"],  
    sample_input_data=sample_data  
)  
conda_model.create_service(  
    service_name="image_inference_service",  
    service_compute_pool="my_gpu_pool",  
    gpu_requests="1",  
    ingress_enabled=True  
)
```



- A.
- B.

```

ip_model = reg.log_model(
    my_hf_model,
    model_name="image_classifier",
    version_name="v1",
    pip_requirements=["torch", "transformers", "opencv-python"]
    sample_input_data=sample_data
)

ip_model.create_service(
    service_name="image_inference_service",
    service_compute_pool="my_gpu_pool",
    gpu_requests="1",
    ingress_enabled=True
)

```

```

pip_model = reg.log_model(
    my_hf_model,
    model_name="image_classifier",
    version_name="v3",
    pip_requirements=["torch", "transformers", "opencv-python"],
    sample_input_data=sample_data
)
pip_model.create_service(
    service_name="image_inference_service",
    service_compute_pool="my_cpu_pool",
    gpu_requests="1",
    ingress_enabled=True
)

```

- C.
  - D.
- ```

conda_model = reg.log_model(
    my_hf_model,
    model_name="image_classifier",
    version_name="v2",
    conda_dependencies=["conda-forge::pytorch", "conda-forge::transformers", "conda-forge::opencv-python"]
    sample_input_data=sample_data
)

conda_model.create_service(
    service_name="image_inference_service",
    service_compute_pool="my_gpu_pool",
    gpu_requests="1",
    ingress_enabled=True
)

```

```

mixed_deps_model = reg.log_model(
    my_hf_model,
    model_name="image_classifier",
    version_name="v5",
    conda_dependencies=["conda-forge::torch", "conda-forge::transformers"],
    pip_requirements=["opencv-python"],
    sample_input_data=sample_data
)

mixed_deps_model.create_service(
    service_name="image_inference_service",
    service_compute_pool="my_gpu_pool",
    gpu_requests="1",
    ingress_enabled=True
)

```

- E.

**Answer: B**

**Explanation:**

Option A is correct. The 'pip\_requirements' argument can be used to specify all necessary Python packages, including 'torch', 'transformers', and 'opencv-python', which are commonly available on PyPI. The 'create\_service' call correctly specifies and to leverage GPU acceleration. This approach aligns with the Snowflake recommendation to use either 'conda\_dependencies' or 'pip\_requirements', but not both, for dependency management. Option B is incorrect because 'opencv-python' is specified as only available via PyPI in the scenario, meaning it cannot be installed via 'conda-forge'. Option C is incorrect because is chosen, which will not provide GPU acceleration required by the model. Option D is incorrect because 'opencv-python' is not available through Anaconda channels (as per the scenario that it is PyPI only), and for other conda packages, explicitly specifying the 'conda-forge' channel (e.g., is the recommended practice for SPCS dependencies if they are not in the Snowflake Anaconda channel. Option E is incorrect because, while it correctly separates conda and pip dependencies, Snowflake explicitly recommends 'using only 'conda\_dependencies' or only 'pip\_requirements', not both' for managing dependencies to avoid potential conflicts.

#### NEW QUESTION # 247

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. For performance and cost optimization, it is always recommended to query Cortex Search and the LLM function within a single
- B. Using the
- C. The
- D. The retrieved context from Cortex Search should be directly concatenated with the user's prompt as input to the
- E. To maintain conversational context in a multi-turn chat, the developer should pass all previous user prompts and model responses in the

**Answer: B,E**

**Explanation:**

Option A is incorrect. The user's query is typically embedded (e.g., using `EMBED_TEXT()`) 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 # 248

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

**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 # 249

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

**Answer: A,B,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 # 250

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