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**SECTION A (40 Marks)**  
(Attempt all questions from this Section.)

**Question 1**

Choose the correct answers to the questions from the given options. [20]  
(Do not copy the questions, write the correct answers only.)

(i) The main objective of the *Ramsar Convention* is to:

(a) Protect the water bodies  
(b) Conserve freshwater resources  
(c) Conserve wetlands  
(d) Construct wetlands

(ii) In one half of the given picture, we can see a distinct discolouration of the Taj Mahal. Identify the main cause of the discolouration of this monument:



(a) Chloro-Fluoro Carbon gas  
(b) Smog  
(c) Acid rain  
(d) Old age of this monument

(iii) *Tarun Bharat Sangh* had helped the local people of Rajasthan to make:

(a) Kunds  
(b) Eris  
(c) Khadin  
(d) Johads

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## **Snowflake SnowPro Advanced: Data Engineer (DEA-C02) Sample Questions (Q63-Q68):**

### **NEW QUESTION # 63**

You have implemented external tokenization for a sensitive data column in Snowflake using a UDF that calls an external API. After some time, you discover that the external tokenization service is experiencing intermittent outages, causing queries using the tokenized column to fail. What is the BEST approach to mitigate this issue and maintain data availability while minimizing the risk of exposing the raw data?

- A. Modify the tokenization UDF to cache tokenization mappings locally within the Snowflake environment. When the external service is unavailable, the UDF can use the cached values.
- B. Implement a masking policy on the column that returns the raw data when the tokenization UDF is unavailable, detected by catching exceptions within the policy logic.
- C. Replicate the tokenized table to another Snowflake region and switch to the replica during outages of the primary region. The tokenization service is guaranteed to be available in at least one region.
- D. **Implement a try-catch block within the UDF. In the catch block, return a pre-defined, non-sensitive default value instead of attempting to call the external tokenization service. You can't return the raw value.**
- E. Implement a try-catch block within the UDF. In the catch block, return a pre-defined static token value (same value always) instead of attempting to call the external tokenization service. You can't return the raw value.

### **Answer: D**

Explanation:

Returning the raw data (option A) defeats the purpose of tokenization. Caching tokenization mappings locally (option C) introduces security risks and potential data synchronization issues. Replicating the table (option B) doesn't solve the immediate problem of the tokenization service outage; it only addresses regional disaster recovery. Returning a default, non-sensitive value (option D) maintains data integrity and avoids exposing sensitive data during outages. Returning the same static token (Option E) for all values could cause data corruption.

### **NEW QUESTION # 64**

You're using Snowpark Python to transform data in a Snowflake table called 'employee\_data' which includes columns , 'department', 'salary' , and 'performance\_rating'. You need to identify the top 3 highest-paid employees within each department based on their salary, but only for departments where the average performance rating is above 4.0. Which of the following approaches using Snowpark efficiently combines window functions, filtering, and aggregations to achieve this?

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

### **Answer: D**

Explanation:

Option E is the most efficient approach, as it calculates the average performance rating per department first and then joins the original DataFrame to only include departments with an average rating above 4.0 using 'left join'. The correct department and salary calculations, filter to only the top 3 with high performance review.

### **NEW QUESTION # 65**

You've created a JavaScript UDF in Snowflake to perform complex string manipulation. You need to ensure this UDF can handle a large volume of data efficiently. The UDF is defined as follows:

When testing with a large dataset, you observe poor performance. Which of the following strategies, when applied independently or in combination, would MOST likely improve the performance of this UDF?

- A. **Convert the JavaScript UDF to a Java UDF, utilizing Java's more efficient string manipulation libraries and leveraging**

**Snowflake's Java UDF execution environment.**

- B. Pre-compile the regular expressions used within the JavaScript UDF outside of the function and pass them as constants into the function. JavaScript regex compilation is expensive, and pre-compilation can reduce overhead.
- C. Ensure the input 'STRING' is defined with the maximum possible length to provide sufficient memory allocation for the JavaScript engine to manipulate the string.
- D. Increase the warehouse size to the largest available size (e.g., X-Large) to provide more resources for the UDF execution.
- E. Replace the JavaScript UDF with a SQL UDF that uses built-in Snowflake string functions like 'REGEXP REPLACE' and 'REPLACE'. SQL UDFs are generally more optimized within Snowflake's execution engine.

**Answer: A,B,E**

**Explanation:**

Options A, C and E can all contribute to better performance. SQL UDFs benefit from Snowflake's optimized execution engine for standard operations, making them often faster than JavaScript UDFs for string manipulation when possible. Pre-compiling regular expressions (Option C) avoids redundant compilation steps during each UDF invocation. Converting to a Java UDF (Option E) gives more control over efficiency compared to JS. The option D may help, but the performance gain is not guaranteed and is more related to resource availability than the UDF's efficiency. The option B is not valid since the size of input STRING won't matter the javascript engine.

#### **NEW QUESTION # 66**

You have created a secure external function that uses a Snowflake secret to retrieve a cryptographic key and mask sensitive data'. However, users are still able to see the sensitive data'. Which of the following actions is MOST likely to resolve the issue?

- A. Grant the ' SELECT privilege on the Snowflake secret object to the user.
- B. Ensure that the user calling the function has the 'USAGE privilege on the security integration associated with the external function.
- C. **Grant the 'EXECUTE FUNCTION' privilege on the function to the user.**
- D. Verify that the user has the 'OWNERSHIP privilege on the table containing the sensitive data.
- E. Ensure that the user has the 'USAGE privilege on the database and schema where the secret is stored.

**Answer: C**

**Explanation:**

Users need EXECUTE FUNCTION privilege on external function. The 'USAGE' privilege on the security integration (A) allows Snowflake to communicate with the external service. The 'SELECT' privilege on the secret object (C) is not required, as Snowflake handles the retrieval of the secret within the function's context. Ownership of the table (D) is related to data access, not function execution. While USAGE on the database and schema where the secret is stored (E) is required for general access, it doesn't grant the privilege to execute the function. Granting the 'EXECUTE FUNCTION' privilege on the function (B) allows the user to call the function and trigger the data masking process. The user needs the "EXECUTE FUNCTION" privilege specifically on the external function.

#### **NEW QUESTION # 67**

You have a Snowflake stage named that points to an S3 bucket containing JSON log files. You want to create a directory table to track the files and their metadata'. The log files are continuously being added to the bucket. Which of the following sets of steps is the MOST efficient way to create and maintain an up-to-date directory table for this stage?

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

**Answer: A**

**Explanation:**

Option D is the most efficient. While S3 event notifications (option B) can be faster, setting up and maintaining the event notification infrastructure and ensuring delivery can be complex. only refreshes at creation. There is no REFRESH\_AUTOMATICALLY or 'AUTO REFRESH' clause. Scheduling a Snowflake Task provides a managed and relatively simple way to keep the directory table up-to-date. The refresh interval for task should be configured for optimal performance.

## NEW QUESTION # 68

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