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Snowflake SPS-C01 SnowPro Specialty: Snowpark Certification Exam

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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q135-Q140):

NEW QUESTION # 135

You are developing a Snowpark application that needs to connect to Snowflake using programmatic access. You want to use a secure method of authentication. Which of the following methods, when passed as parameters to the `'snowpark.Session.builder.configS'` method, would be MOST secure and appropriate for production environments?

- A. Using `'oauth_access_token'` obtained from an external OAuth server.
- B. Passing the `'user'`, `'password'`, and `'account'` parameters directly as strings.
- C. Passing the `'user'` and `'password'` directly, but retrieving the `'account'` from an environment variable.
- D. Setting the `'authenticator'` parameter to `'snowflake'` and rely on default Snowflake authentication mechanism assuming it setup correctly
- E. Using `'private_key'` stored securely and referencing it using `'private_key_file'`.

Answer: A,E

Explanation:

Using `'oauth_access_token'` and `'private_key'` (especially when stored securely) are more secure than directly passing username and password. OAuth and Key Pair authentication are recommended for production environments because they avoid storing or transmitting passwords directly. Options A & B are vulnerable because they expose credentials directly in the code or configuration. Option E is incorrect because simply setting the authenticator does not ensure the user authentication will happen with secure methods. User must use OAuth or Key pair authentication for Production use case.

NEW QUESTION # 136

You are tasked with optimizing a Snowpark application that performs sentiment analysis on customer reviews using a Python UDF. The UDF uses a large pre-trained natural language processing (NLP) model stored in a file named `'sentiment_model.pkl'`. The current implementation loads the model from the stage for each row of data processed, which is impacting performance. How can you optimize the application to load the model only once per worker process?

- A. Use a global variable to store the loaded model. Load the model from the stage into the global variable only if it is currently None. Upload `'sentiment_model.pkl'` to a stage and reference it in the `'imports'` clause.
- B. Implement a custom initialization function that loads the model and is called only once per worker process. Utilize the to retrieve and cache model during session initialization. Upload `'sentiment_model.pkl'` to a stage and reference it in the `'imports'` clause.
- C. Use to import `'sentiment_model.pkl'`. Use the decorator from the `'functools'` module to cache the model loading function, initializing the model outside of the UDF definition.
- D. Define `'sentiment_model.pkl'` as a parameter during UDF definition to load only once per worker process and send it to the UDF.
- E. Use the decorator from the `'functools'` module to cache the model loading function. Upload `'sentiment_model.pkl'` to a stage and reference it in the `'imports'` clause.

Answer: A

Explanation:

Option B offers the most straightforward and efficient solution. By utilizing a global variable and loading the model only if it's 'None', the model is loaded only once per worker process. The `'imports'` clause ensures the model file is accessible to the UDF. Caching via `'@cache'` (A) might not work correctly with serialization/deserialization across processes. (C) pre imports at the session level but cache control is still missing. passing as parameter (D) doesn't address model only loads once per worker. (E) This technique is not directly supported for achieving per-worker initialization in standard Snowpark UDFs, making B a better and more commonly used approach.

NEW QUESTION # 137

You have a Snowpark application that processes sensitive data'. To enhance security, you want to use key pair authentication and

ensure that the private key is never exposed in plain text within the application or logs. Which of the following strategies offers the most robust protection against accidental key exposure, even in the event of a security breach of the application server itself?

- A. Store the private key in an environment variable on the application server, ensuring that only the application user has read access.
- B. Store the private key encrypted using AES encryption with a key derived from a passphrase. Prompt the user for the passphrase each time the application starts.
- C. Store the private key in an encrypted file with restricted access, decrypting it only during session creation and overwriting the memory location immediately afterwards.
- D. Store the private key encrypted with a symmetric key. Store the symmetric key in a separate environment variable.
- **E. Use a dedicated Hardware Security Module (HSM) or a cloud-based key management service (e.g., AWS KMS, Azure Key Vault) to store and manage the private key. Configure the Snowpark application to retrieve the key only when needed and never store it locally.**

Answer: E

Explanation:

Using a dedicated HSM or cloud-based key management service (C) offers the strongest protection. HSMs and KMSs are specifically designed to securely store and manage cryptographic keys, providing hardware-backed security and access controls. The private key never leaves the HSM/KMS, minimizing the risk of exposure. Option A, storing in an environment variable, provides some protection but is still vulnerable if the server is compromised. Option B simply moves the problem of key management from one key to another. The symmetric key is also vulnerable. Option D requires user interaction and the passphrase could be compromised. Option E improves on environment variables, but is still less secure than HSM and KMS. HSMs/KMSs are FIPS 140-2 Level 3 validated, which is most secure.

NEW QUESTION # 138

You have a Snowflake table 'raw_events' containing JSON data in a VARIANT column named 'event_data'. This column contains nested JSON objects representing user activity on a website. You need to extract specific nested values and load them into a new Snowflake table 'user_activity' with columns 'event_type', and 'timestamp'. Which of the following Snowpark code snippets is the MOST efficient and correct way to achieve this, assuming you want to minimize data transfer and optimize performance? Consider the potential for null values within the JSON.

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

Answer: D

Explanation:

Option C is the most efficient because it uses Snowflake's native JSON path notation (using 'f') directly within the 'select' statement, which is optimized for Snowflake's internal JSON handling. The other options use function calls ('get', 'col'), which can introduce overhead. Furthermore, the code uses try_to_timestamp() to avoid errors due to null values

NEW QUESTION # 139

You're tasked with loading data representing transactions from a legacy system into Snowflake using Snowpark. The legacy system exports the transaction data as a Python list of tuples, where each tuple contains transaction ID (integer), transaction amount (float), and transaction date (string in 'YYYY-MM-DD' format). The scale of data can be very high and need optimized way to load the data. Your goal is to create a Snowpark DataFrame from this list of tuples, ensuring the date column is correctly interpreted as a Snowflake Date type. Which of the following approaches would be the most efficient and correct, minimizing data conversion overhead and maximizing Snowpark's capabilities?

- A. Create a Snowpark DataFrame directly from the list of tuples using 'session.createDataFrame(data)', relying on automatic schema inference. Then, use function to cast the date column to a Date type.
- B. Create a Snowpark DataFrame directly from the list of tuples using 'session.createDataFrame(datay', relying on automatic schema inference. No need to explicitly convert to 'Date type' as Snowflake will take care of implicit conversion.
- C. Create a list of dictionaries from the list of tuples with correct column names, and define a Snowpark schema using 'StructType' and 'StructField', explicitly setting the data type of the date column to 'Date type'. Then, create the Snowpark

DataFrame using 'session.createDataFrame(data, schema=schema)'.

- D. Define a Snowpark schema using 'StructType' and 'StructField' , explicitly setting the data type of the date column to 'DateType'. Then, create the Snowpark DataFrame using 'session.createDataFrame(data, schema=schema)'.
- E. Convert the list of tuples to a Pandas DataFrame, explicitly specifying the column names and data types (including 'pd.datetime64[ns]' for the date column). Then, create a Snowpark DataFrame from the Pandas DataFrame using 'session.createDataFrame(pandas_df)'.

Answer: D

Explanation:

Option C is the most efficient and correct way. Correctness : Option C explicitly defines the schema, including the 'DateType' for the transaction date. This ensures that Snowflake correctly interprets the date column without requiring any further casting or conversion. Avoids unnecessary string conversion. Efficiency : By defining the schema upfront, you avoid schema inference during dataframe creation, which can be costly for large datasets. This also avoids the cost of explicit casting after dataframe creation (as in Option A). Maximizing Snowpark Capabilities : Directly using Snowpark API to declare data types takes full advantage of Snowpark capabilities. Option A relies on implicit schema inference, which is not optimal in scenarios with specific data type requirements, and it requires an additional step which can be costly for large data. Option B introduces a dependency on Pandas and involves converting the data to a Pandas DataFrame, then to a Snowpark DataFrame, which creates unnecessary overhead and is not the most efficient approach. Option D, although correct, requires you to create a list of dictionaries, which adds an unneeded step in between and may not be optimized. Option E relies on implicit casting; However, this can lead to failure if date format is wrong.

NEW QUESTION # 140

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