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NEW QUESTION 35

A company has an application written using an in-house software framework. The framework installation takes 30 minutes and is performed with a user data script. Company Developers deploy changes to the application frequently. The framework installation is becoming a bottleneck in this process.

Which of the following would speed up this process?

- A. Employ a user data script to install the framework but compress the installation files to make them smaller.
- B. Create a pipeline to build a custom AMI with the framework installed and use this AMI as a baseline for application deployments.
- C. Configure an AWS OpsWorks cookbook that installs the framework instead of employing user data. Use this cookbook as a base for all deployments.
- D. Create a pipeline to parallelize the installation tasks and call this pipeline from a user data script.

Answer: B

Explanation:

<https://aws.amazon.com/codepipeline/features/?nc=sn&loc=2>

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Snowflake Certified SnowPro Specialty - Snowpark Sample Questions (Q313-Q318):

NEW QUESTION # 313

You have a Snowpark application that utilizes a vectorized Python UDF to perform complex calculations on a large dataset. You notice that the performance is still not optimal. You suspect that the bottleneck might be related to how the data is being partitioned and processed by Snowflake. Which of the following actions, when performed in conjunction with vectorization, would MOST likely improve performance?

- A. Ensure that the data is pre-sorted according to the primary key of the table before applying the UDF.
- B. Convert the DataFrame to a Pandas DataFrame before applying the UDF.
- C. Repartition the Snowpark DataFrame using to align the data distribution with the computational needs of the UDF.
- D. Broadcast the DataFrame to all compute nodes before applying the UDF.
- E. Increase the number of UDF worker threads within the UDF definition.

Answer: C

Explanation:

Repartitioning the DataFrame using allows you to control how the data is distributed across compute nodes. This can improve performance by ensuring that related data is processed together, reducing data shuffling and improving data locality. Pre-sorting data (A) might help in some cases, but it doesn't guarantee optimal data distribution for parallel processing. Broadcasting the DataFrame (C) is suitable for smaller datasets, not large ones where it can lead to memory issues. Converting the DataFrame to a Pandas DataFrame (D) defeats the purpose of using Snowpark for distributed processing and introduces a single-node bottleneck. There's no direct control over the number of UDF worker threads in Snowflake.

NEW QUESTION # 314

You are tasked with creating a Snowpark Python stored procedure that reads data from a Snowflake table, performs a complex data transformation using a 3rd party Python library (e.g., pandas, scikit-learn), and writes the transformed data to another Snowflake table.

The data transformation requires significant memory. You need to register this stored procedure in Snowflake. Which of the following approaches is the MOST appropriate for registering the stored procedure and managing the dependencies?

- A. Use the '@sproc' decorator without specifying any dependencies, assuming that the necessary libraries are pre-installed on the Snowflake worker nodes.
- B. Install the required Python libraries directly on the Snowflake compute warehouse using a SQL command.
- C. Use the function to add the required Python libraries before registering the stored procedure with the '@sproc' decorator.
- D. Create a Snowflake stage, upload the Python libraries as .zip files to the stage, and specify the stage path in the '@sproc' decorator's 'imports' parameter.
- E. Create a conda environment file ('environment.yml') specifying the dependencies, upload it to a stage, and then use the '@sproc' decorator with the 'packages' argument referencing the conda environment.

Answer: E

Explanation:

Using a conda environment file ('environment.yml') uploaded to a stage is the recommended and most reliable way to manage dependencies for Snowpark Python stored procedures. It ensures that all required libraries and their versions are consistently available. Option A is incorrect as libraries are not pre-installed. Option B is deprecated. Option C is possible but less manageable than a conda environment. Option E is not possible, you cannot directly install onto the warehouse.

NEW QUESTION # 315

A data engineering team has developed a Snowpark Python application to process customer orders, enrich them with external data (e.g., geo location, weather) and update the Customer360 table. The application is deployed to a production environment. The application's latency has significantly increased over the last week. Your investigation reveals that the Snowflake warehouse used by the application is constantly switching between the 'Scaling Up' and 'Scaling Down' states. The team has set the Auto Suspend time to 5 minutes and Auto Resume to True. Assuming that the team hasn't changed the code, the external API or any parameter related to data ingestion, which combination of the following actions would MOST likely fix the warehouse instability issue and improve the performance of this Snowpark application in production without substantial cost increases?

- A. Increase the Auto Suspend value from 5 minutes to 30 minutes. This will ensure that the warehouse remains active for a longer period, preventing frequent auto- suspends and subsequent resume operations.
- B. Change the scaling policy of the warehouse to 'ECONOMY', prioritizing cost efficiency over performance responsiveness.
- C. Increase the MIN_CLUSTER_COUNT of the warehouse. This pre-warms clusters and helps the warehouse to quickly adjust to workload changes.
- D. Implement workload management and classification to ensure the Customer360 updates are prioritized over less important tasks and assigned to a dedicated resource pool.
- E. Reduce the MAX_CLUSTER_COIINT to limit the potential peak capacity of the warehouse, preventing excessive resource allocation.

Answer: A,C

Explanation:

The 'Scaling Up' and 'Scaling Down' thrashing is likely caused by the warehouse suspending too quickly, leading to constant restarts as new requests arrive. Increasing the Auto Suspend time (Option A) prevents this frequent cycling. Increasing the MIN CLUSTER COUNT (Option B) makes more resources readily available, helping the warehouse respond faster to spikes in demand and reducing the need for scaling up. Workload management (Option C) is a good practice but may not directly address the root cause of the instability. Reducing MAX_CLUSTER_COUNT (Option D) could worsen the problem by limiting the warehouse's ability to handle peak loads. Changing to 'ECONOMY' scaling policy (Option E) would prioritize cost over performance, which is counter to improving performance.

NEW QUESTION # 316

You have a Snowpark DataFrame named containing daily sales transactions. The DataFrame includes columns like 'transaction_id', 'product_id', 'sale_date', and 'sale_amount'. You need to perform the following transformations and persist the results: (1) Calculate the total sales amount for each product on a daily basis. (2) Store the aggregated results into a new table named , partitioned by 'sale_date'. (3) Ensure that if the table already exists, the new data is appended to the existing table. Which of the following code blocks achieve these requirements in the most efficient and correct manner?

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

Answer: A

Explanation:

Option A is the most efficient and correct. It first aggregates the data as required, then uses 'mode('append')' to add new data without overwriting existing data, and for partitioning. Option B will overwrite existing data. Option C is equivalent to option A, but is a less common coding style. Option D renames the default aggregate column name which is less readable but also works correctly. Option E, 'mergeSchema' isn't a valid option to be passed.

NEW QUESTION # 317

You are tasked with building a data pipeline that uses Snowpark to process customer data in a table called 'CUSTOMERS'. The table contains sensitive information, and you need to ensure that any Personally Identifiable Information (PII) is removed from the table after 30 days. You decide to implement a mechanism to automatically delete records older than 30 days. Which of the following approaches would you consider when designing the deletion process with consideration of cost, performance and security?

- A. Implement a Snowflake Stream on the 'CUSTOMERS' table. Create another table 'CUSTOMERS ARCHIVE' with the same schema and stream data older than 30 days using 'DataFrame.copy_into_table', then truncate data from original CUSTOMERS table
- B. Schedule a daily Snowpark script to read the entire 'CUSTOMERS' table, filter out records older than 30 days based on the 'created_at' column, and then use DataFrame.delete() to remove those records from the table.
- C. Implement a dynamic data masking policy on the PII columns instead of deleting records. Set the policy to mask data older than 30 days.
- D. Create a Snowpark Stored Procedure that executes the 'DataFrame.delete()' operation and schedule this stored procedure to run daily using a Snowflake Task.
- E. Implement a Snowflake Task that executes a SQL 'DELETE statement directly against the 'CUSTOMERS' table, filtering records based on the 'created_at' column.

Answer: C,D,E

Explanation:

Options B, C and E are viable and have tradeoffs. A and D will be less ideal. Option A : This approach can be very inefficient as it requires scanning the entire table daily to identify records for deletion. This can lead to high costs and performance issues. Option B : Using a Snowflake Task with a direct SQL DELETE statement is generally more efficient than reading the entire table in Snowpark, especially for large tables. Snowflake can optimize the DELETE operation internally. Option C : Encapsulating the deletion logic in a Snowpark Stored Procedure and scheduling it with a Snowflake Task allows you to leverage Snowpark's capabilities while benefiting from Snowflake's task scheduling and optimization. This can offer a good balance of flexibility and performance. Option D : This is an archive solution, not deletion; it's not as fast or space saving as truncating. Option E : Data masking is a secure alternative. It preserves the records while redacting sensitive data. No need to scan for old records, so its best on performance, cost, and security.

NEW QUESTION # 318

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