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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q46-Q51):

NEW QUESTION # 46

You need to design a data storage structure for the product sales transactions. The solution must meet the sales transaction dataset requirements.

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Table type to store the product sales transactions:

When creating the table for sales transactions:

Hash
Round-robin
Replicated

Configure a clustered index.
Set the distribution column to product ID.
Set the distribution column to the sales date.

Answer:

Explanation:

Answer Area

Table type to store the product sales transactions: Hash

When creating the table for sales transactions: Configure a clustered index. Set the distribution column to product ID. Set the distribution column to the sales date.

Reference:

<https://rajanieshkaushikk.com/2020/09/09/how-to-choose-right-data-distribution-strategy-for-azure-synapse/>

NEW QUESTION # 47

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Data Lake Storage account that contains a staging zone.

You need to design a daily process to ingest incremental data from the staging zone, transform the data by executing an R script, and then insert the transformed data into a data warehouse in Azure Synapse Analytics.

Solution: You schedule an Azure Databricks job that executes an R notebook, and then inserts the data into the data warehouse.

Does this meet the goal?

- A. No
- B. Yes

Answer: B

Explanation:

Explanation

Must use an Azure Data Factory, not an Azure Databricks job.

Reference:

<https://docs.microsoft.com/en-US/azure/data-factory/transform-data>

NEW QUESTION # 48

You need to design the partitions for the product sales transactions. The solution must meet the sales transaction dataset requirements.

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Partition product sales transactions data by: Sales date, Product ID, Promotion ID

Store product sales transactions data in: An Azure Synapse Analytics dedicated SQL pool, An Azure Synapse Analytics serverless SQL pool, An Azure Data Lake Storage Gen2 account linked to an Azure Synapse Analytics workspace, An Azure Synapse Analytics dedicated SQL pool

Answer:

Explanation:

Partition product sales transactions data by:

Sales date
Product ID
Promotion ID

Store product sales transactions data in:

An Azure Synapse Analytics dedicated SQL pool
An Azure Synapse Analytics serverless SQL pool
An Azure Data Lake Storage Gen2 account linked to an Azure Synapse Analytics workspace

Explanation

Partition product sales transactions data by:

Sales date
Product ID
Promotion ID

Store product sales transactions data in:

An Azure Synapse Analytics dedicated SQL pool
An Azure Synapse Analytics serverless SQL pool
An Azure Data Lake Storage Gen2 account linked to an Azure Synapse Analytics workspace

Box 1: Sales date

Scenario: Contoso requirements for data integration include:

* Partition data that contains sales transaction records. Partitions must be designed to provide efficient loads by month. Boundary values must belong to the partition on the right.

Box 2: An Azure Synapse Analytics Dedicated SQL pool

Scenario: Contoso requirements for data integration include:

* Ensure that data storage costs and performance are predictable.

The size of a dedicated SQL pool (formerly SQL DW) is determined by Data Warehousing Units (DWU).

Dedicated SQL pool (formerly SQL DW) stores data in relational tables with columnar storage. This format significantly reduces the data storage costs, and improves query performance.

Synapse analytics dedicated sql pool

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-overview-wha>

NEW QUESTION # 49

You have an Azure Synapse Analytics workspace.

You plan to deploy a lake database by using a database template in Azure Synapse.

Which two elements are included in the template? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point

- A. relationships

- B. linked services
- C. data formats
- D. table permissions
- E. table definitions

Answer: A,E

NEW QUESTION # 50

You are designing 2 solution that will use tables in Delta Lake on Azure Databricks.

You need to minimize how long it takes to perform the following:

*Queries against non-partitioned tables

* Joins on non-partitioned columns

Which two options should you include in the solution? Each correct answer presents part of the solution.

(Choose Correct Answer and Give Explanation and Reference to Support the answers based from Data Engineering on Microsoft Azure)

- A. the clone command
- B. dynamic file pruning (DFP)
- C. Apache Spark caching
- D. Z-Ordering

Answer: B,D

Explanation:

According to the information I found on the web, two options that you should include in the solution to minimize how long it takes to perform queries and joins on non-partitioned tables are:

Z-Ordering: This is a technique to colocate related information in the same set of files. This co-locality is automatically used by Delta Lake in data-skipping algorithms. This behavior dramatically reduces the amount of data that Delta Lake on Azure Databricks needs to read.

Apache Spark caching: This is a feature that allows you to cache data in memory or on disk for faster access. Caching can improve the performance of repeated queries and joins on the same data. You can cache Delta tables using the CACHE TABLE or CACHE LAZY commands.

To minimize the time it takes to perform queries against non-partitioned tables and joins on non-partitioned columns in Delta Lake on Azure Databricks, the following options should be included in the solution:

A) Z-Ordering: Z-Ordering improves query performance by co-locating data that share the same column values in the same physical partitions. This reduces the need for shuffling data across nodes during query execution. By using Z-Ordering, you can avoid full table scans and reduce the amount of data processed.

B) Apache Spark caching: Caching data in memory can improve query performance by reducing the amount of data read from disk. This helps to speed up subsequent queries that need to access the same data. When you cache a table, the data is read from the data source and stored in memory. Subsequent queries can then read the data from memory, which is much faster than reading it from disk.

Reference:

Delta Lake on Databricks: <https://docs.databricks.com/delta/index.html>

NEW QUESTION # 51

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