



# DP-201<sup>Q&As</sup>

Designing an Azure Data Solution

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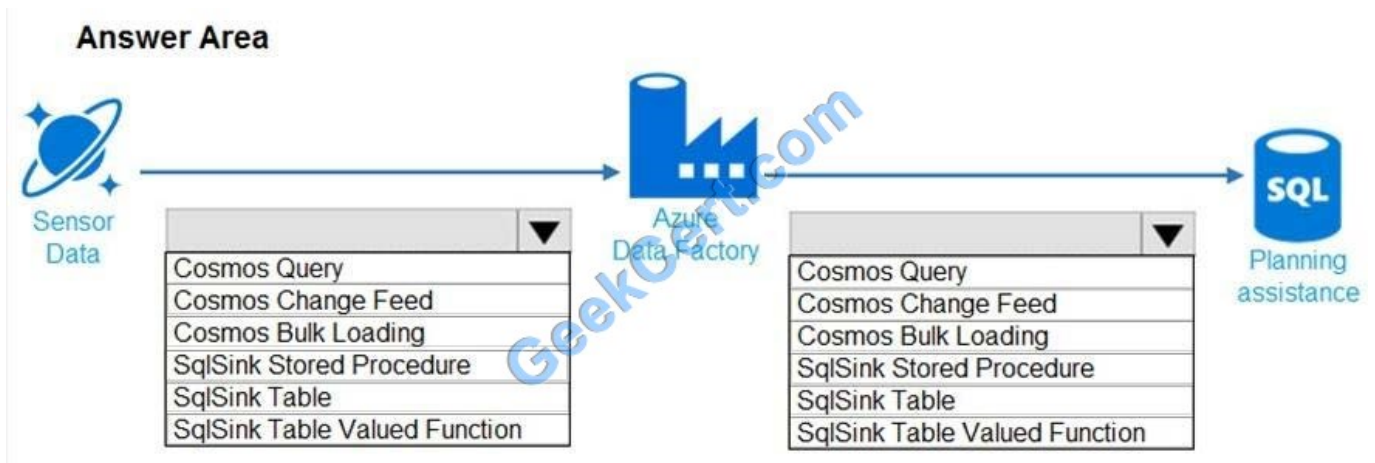
**QUESTION 1**

You need to design the data loading pipeline for Planning Assistance.

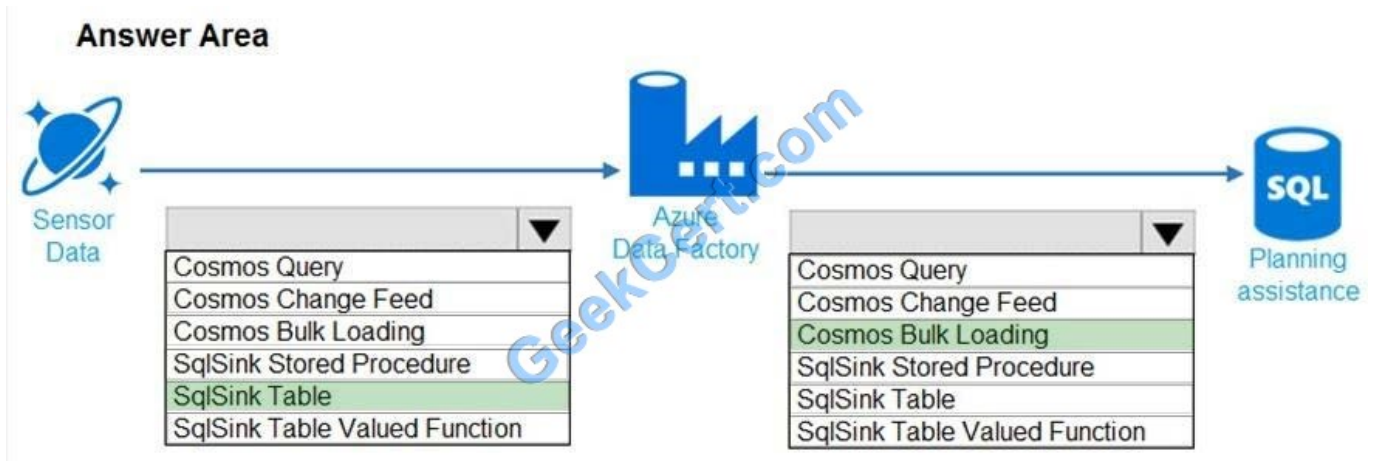
What should you recommend? To answer, drag the appropriate technologies to the correct locations. Each technology may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Box 1: SqlSink Table

Sensor data must be stored in a Cosmos DB named treydata in a collection named SensorData

Box 2: Cosmos Bulk Loading

Use Copy Activity in Azure Data Factory to copy data from and to Azure Cosmos DB (SQL API).

Scenario: Data from the Sensor Data collection will automatically be loaded into the Planning Assistance database once



a week by using Azure Data Factory. You must be able to manually trigger the data load process.

Data used for Planning Assistance must be stored in a sharded Azure SQL Database.

References:

<https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-cosmos-db>

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## QUESTION 2

You need to recommend a solution for storing customer data. What should you recommend?

- A. Azure SQL Data Warehouse
- B. Azure Stream Analytics
- C. Azure Databricks
- D. Azure SQL Database

Correct Answer: C

From the scenario:

Customer data must be analyzed using managed Spark clusters.

All cloud data must be encrypted at rest and in transit. The solution must support: parallel processing of customer data.

References:

<https://www.microsoft.com/developerblog/2019/01/18/running-parallel-apache-spark-notebook-workloads-on-azure-databricks/>

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## QUESTION 3

You need to recommend a storage solution for a sales system that will receive thousands of small files per minute. The files will be in JSON, text, and CSV formats. The files will be processed and transformed before they are loaded into an Azure data warehouse. The files must be stored and secured in folders.

Which storage solution should you recommend?

- A. Azure Data Lake Storage Gen2
- B. Azure Cosmos DB
- C. Azure SQL Database
- D. Azure Blob storage

Correct Answer: A

Azure provides several solutions for working with CSV and JSON files, depending on your needs. The primary landing place for these files is either Azure Storage or Azure Data Lake Store.<sup>1</sup>



Azure Data Lake Storage is an optimized storage for big data analytics workloads.

Incorrect Answers:

D: Azure Blob Storage containers is a general purpose object store for a wide variety of storage scenarios. Blobs are stored in containers, which are similar to folders.

References: <https://docs.microsoft.com/en-us/azure/architecture/data-guide/scenarios/csv-and-json>

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#### QUESTION 4

You are designing an Azure Databricks interactive cluster. The cluster will be used infrequently and will be configured for auto-termination. You need to ensure that the cluster configuration is retained indefinitely after the cluster is terminated. The solution must minimize costs. What should you do?

- A. Clone the cluster after it is terminated.
- B. Terminate the cluster manually when processing completes.
- C. Create an Azure runbook that starts the cluster every 90 days.
- D. Pin the cluster.

Correct Answer: D

To keep an interactive cluster configuration even after it has been terminated for more than 30 days, an administrator can pin a cluster to the cluster list.

References: <https://docs.azuredatabricks.net/clusters/clusters-manage.html#automatic-termination>

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#### QUESTION 5

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 are designing an HDInsight/Hadoop cluster solution that uses Azure Data Lake Gen1 Storage.

The solution requires POSIX permissions and enables diagnostics logging for auditing.

You need to recommend solutions that optimize storage.

Proposed Solution: Ensure that files stored are smaller than 250MB.

Does the solution meet the goal?

- A. Yes



B. No

Correct Answer: B

Ensure that files stored are larger, not smaller than 250MB.

You can have a separate compaction job that combines these files into larger ones.

Note: The file POSIX permissions and auditing in Data Lake Storage Gen1 comes with an overhead that becomes apparent when working with numerous small files. As a best practice, you must batch your data into larger files versus writing

thousands or millions of small files to Data Lake Storage Gen1. Avoiding small file sizes can have multiple benefits, such as:

1.

Lowering the authentication checks across multiple files

2.

Reduced open file connections

3.

Faster copying/replication

4.

Fewer files to process when updating Data Lake Storage Gen1 POSIX permissions

References: <https://docs.microsoft.com/en-us/azure/data-lake-store/data-lake-store-best-practices>

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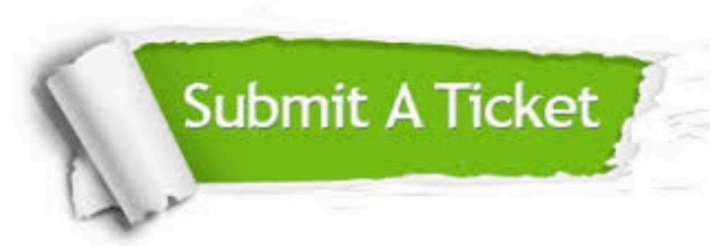
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