



# 70-776<sup>Q&As</sup>

Perform Big Data Engineering on Microsoft Cloud Services

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### QUESTION 1

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 a table named Table1 that contains 3 billion rows. Table1 contains data from the last 36 months.

At the end of every month, the oldest month of data is removed based on a column named DateTime.

You need to minimize how long it takes to remove the oldest month of data.

Solution: You implement a columnstore index on the DateTime column.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

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### QUESTION 2

You have an on-premises data warehouse that uses Microsoft SQL Server 2016. All the data in the data warehouse comes from text files stored in Azure Blob storage. The text files are imported into the data warehouse by using SQL Server

Integration Services (SSIS). The text files are not transformed.

You need to migrate the data to an Azure SQL data warehouse in the least amount of time possible.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Use SSIS to upload the files in Azure Blob storage to tables in the Azure SQL data warehouse.

B. Execute the CREATE EXTERNAL TABLE AS SELECT statement to export the data.

C. Use AzCopy to transfer the data from the on-premises data warehouse to Azure SQL data warehouse.

D. Execute the CREATE TABLE AS SELECT statement to load the data.

E. Define external tables in the Azure SQL data warehouse that map to the existing files in Azure Blob storage.

Correct Answer: DE

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### QUESTION 3

#### DRAG DROP

You plan to develop a solution for real-time sentiment analysis of Twitter data.

You need to create a Microsoft Azure Stream Analytics job query to count the number of tweets during a period.

Which Window function should you use for each requirement? To answer, drag the appropriate functions to the correct requirements. Each function 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.

Select and Place:

Windows Functions	Answer Area
<div>HoppingWindow</div>	Count the number of tweets every 10 seconds during the last 90 seconds: <div>Window function</div>
<div>SlidingWindow</div>	Count the number of tweets during the last 30 seconds: <div>Window function</div>
<div>TumblingWindow</div>	

Correct Answer:

Windows Functions	Answer Area
<div>HoppingWindow</div>	Count the number of tweets every 10 seconds during the last 90 seconds: <div>TumblingWindow</div>
<div></div>	Count the number of tweets during the last 30 seconds: <div>SlidingWindow</div>
<div></div>	

References: <https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-window-functions>

### QUESTION 4

Note: This question is part of a series of questions that present the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

Start of repeated scenario



You are migrating an existing on-premises data warehouse named LocalDW to Microsoft Azure. You will use an Azure SQL data warehouse named AzureDW for data storage and an Azure Data Factory named AzureDF for extract, transformation, and load (ETL) functions.

For each table in LocalDW, you create a table in AzureDW.

On the on-premises network, you have a Data Management Gateway.

Some source data is stored in Azure Blob storage. Some source data is stored on an on-premises Microsoft SQL Server instance. The instance has a table named Table1.

After data is processed by using AzureDF, the data must be archived and accessible forever. The archived data must meet a Service Level Agreement (SLA) for availability of 99 percent. If an Azure region fails, the archived data must be available for reading always.

End of repeated scenario.

You need to configure Azure Data Factory to connect to the on-premises SQL Server instance.

What should you do first?

- A. Deploy an Azure virtual network gateway.
- B. Create a dataset in Azure Data Factory.
- C. From Azure Data Factory, define a data gateway.
- D. Deploy an Azure local network gateway.

Correct Answer: C

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## QUESTION 5

You are using a Microsoft Azure Stream Analytics query language.

You are outputting data from an input click stream.

You need to ensure that when you consecutively receive two rows from the same IP address within one minute, only the first row is outputted.

Which functions should you use in the WHERE statement?

- A. Last and HoppingWindow
- B. Last and SlidingWindow
- C. LAG and HoppingWindow
- D. LAG and Duration

Correct Answer: B



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