



70-776^{Q&As}

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QUESTION 1

HOTSPOT

You use Microsoft Visual Studio to develop custom solutions for customers who use Microsoft Azure Data Lake Analytics.

You install the Data Lake Tools for Visual Studio.

You need to identify which tasks can be performed from Visual Studio and which tasks can be performed from the Azure portal.

What should you identify for each task? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Create a U-SQL project:

	▼
Azure portal only	
Visual Studio only	
Both Visual Studio and Azure portal	

Create an Azure Data Lake Analytics account:

	▼
Azure portal only	
Visual Studio only	
Both Visual Studio and Azure portal	

Upload data files to the default Azure Data Lake Store:

	▼
Azure portal only	
Visual Studio only	
Both Visual Studio and Azure portal	

Correct Answer:



Answer Area

Create a U-SQL project:

Azure portal only

Visual Studio only

Both Visual Studio and Azure portal

Create an Azure Data Lake Analytics account:

Azure portal only

Visual Studio only

Both Visual Studio and Azure portal

Upload data files to the default Azure Data Lake Store:

Azure portal only

Visual Studio only

Both Visual Studio and Azure portal

QUESTION 2

You have a fact table named PowerUsage that has 10 billion rows. PowerUsage contains data about customer power usage during the last 12 months. The usage data is collected every minute. PowerUsage contains the columns configured as shown in the following table.

Column name	Data type	Nullable
MeasurementId	bigint	No
CustomerId	int	No
LocationNumber	int	No
MinuteOfMonth	int	No
MonthKey	int	No
Usage	int	Yes

LocationNumber has a default value of 1. The MinuteOfMonth column contains the relative minute within each month. The value resets at the beginning of each month. A sample of the fact table data is shown in the following table.



Measurement Id	CustomerId	Location Number	MinuteOf Month	MonthKey	Usage
1	1	1	1	1	100
2	1	1	2	1	66
3	2	2	1	1	88
4	1	1	1	2	93
5	1	1	2	2	0
6	2	2	1	2	47
7	1	1	1	2	52
8	1	1	2	2	22



There is a related table named Customer that joins to the PowerUsage table on the CustomerId column. Sixty percent of the rows in PowerUsage are associated to less than 10 percent of the rows in Customer. Most queries do not require the

use of the Customer table. Many queries select on a specific month.

You need to minimize how long it takes to find the records for a specific month.

What should you do?

- A. Implement partitioning by using the MonthKey column. Implement hash distribution by using the CustomerId column.
- B. Implement partitioning by using the CustomerId column. Implement hash distribution by using the MonthKey column.
- C. Implement partitioning by using the MonthKey column. Implement hash distribution by using the MeasurementId column.
- D. Implement partitioning by using the MinuteOfMonth column. Implement hash distribution by using the MeasurementId column.

Correct Answer: C

QUESTION 3

HOTSPOT

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. The storage solution for the archived data must minimize costs.

End of repeated scenario.

How should you configure the storage to archive the source data? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Storage tier:

	▼
Blob Storage Cool	
Blob Storage Hot	
General Purpose	

Storage account type:

	▼
Geo-Redundant Storage (GRS)	
Locally Redundant Storage (LRS)	
Read-Access Geo-Redundant Storage (RA-GRS)	
Zone-Redundant Storage (ZRS)	

Correct Answer:



Answer Area

Storage tier:

Storage account type:

References: <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers>

QUESTION 4

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

HoppingWindow

SlidingWindow

TumblingWindow

Answer Area

Count the number of tweets every 10 seconds during the last 90 seconds:

Window function

Count the number of tweets during the last 30 seconds:

Window function

Correct Answer:

**Windows Functions****HoppingWindow****Answer Area**Count the number of tweets every 10 seconds
during the last 90 seconds:**TumblingWindow**Count the number of tweets during the last 30
seconds:**SlidingWindow**References: <https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-window-functions>**QUESTION 5**

You have a Microsoft Azure Data Lake Analytics service. You have a CSV file that contains employee salaries.

You need to write a U-SQL query to load the file and to extract all the employees who earn salaries that are greater than \$100,000. You must encapsulate the data for reuse.

What should you use?

- A. a table-valued function
- B. a view
- C. the extract command
- D. the output command

Correct Answer: A

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