



# DP-900<sup>Q&As</sup>

Microsoft Azure Data Fundamentals

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### QUESTION 1

#### DRAG DROP

Match the types of workloads to the appropriate scenarios. To answer, drag the appropriate workload type from the column on the left to its scenario on the right. Each workload type may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

Data for a product catalog will be loaded every 12 hours to a data warehouse.

Data for online purchases will be loaded to a data warehouse as the purchases occur.

Updates to inventory data will be loaded to a data warehouse every 1,000 transactions.

#### Workload Type

Correct Answer:

Data for a product catalog will be loaded every 12 hours to a data warehouse.

Data for online purchases will be loaded to a data warehouse as the purchases occur.

Updates to inventory data will be loaded to a data warehouse every 1,000 transactions.

#### Workload Type

Box 1: Batch



Batch processing refers to the processing of blocks of data that have already been stored over a period of time.

Box 2: Streaming

Stream processing is a big data technology that allows us to process data in real-time as they arrive and detect conditions within a small period of time from the point of receiving the data. It allows us to feed data into analytics tools as soon as

they get generated and get instant analytics results.

Box 3: Batch

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### QUESTION 2

Which Azure SQL offering provides near-100 percent compatibility with on-premises Microsoft SQL Server instances, while providing automated updates, backups, and maintenance tasks?

- A. Azure SQL Managed Instance
- B. SQL Server on Azure Virtual Machines
- C. Azure SQL Edge
- D. Azure SQL Database

Correct Answer: A

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### QUESTION 3

Which type of database contains nodes and edges?

- A. graph
- B. columnar
- C. key/value
- D. time series

Correct Answer: A

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### QUESTION 4

You have an application that runs on Windows and requires access to a mapped drive. Which Azure service should you use?

- A. Azure Files
- B. Azure Blob storage
- C. Azure Cosmos DB



D. Azure Table storage

Correct Answer: A

Azure Files is Microsoft's easy-to-use cloud file system. Azure file shares can be seamlessly used in Windows and Windows Server. To use an Azure file share with Windows, you must either mount it, which means assigning it a drive letter or mount point path, or access it via its UNC path.

Reference: <https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-use-files-windows>

## QUESTION 5

HOTSPOT For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

### Answer Area

Statements	Yes	No
You create Azure File Storage in a storage account.	<input type="radio"/>	<input type="radio"/>
The Premium tier of Azure File Storage uses HDD-based hardware in a datacenter.	<input type="radio"/>	<input type="radio"/>
The Standard tier of Azure File Storage uses SSDs.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

### Answer Area

Statements	Yes	No
You create Azure File Storage in a storage account.	<input checked="" type="radio"/>	<input type="radio"/>
The Premium tier of Azure File Storage uses HDD-based hardware in a datacenter.	<input type="radio"/>	<input checked="" type="radio"/>
The Standard tier of Azure File Storage uses SSDs.	<input type="radio"/>	<input checked="" type="radio"/>

Yes. Azure File Storage can be created in a storage account in Azure.

No. The Premium tier of Azure File Storage uses SSD-based hardware in a datacenter, not HDD-based.

No. The Standard tier of Azure File Storage also uses HDD-based hardware in a datacenter, not SSD-based. However, it is worth noting that both tiers of Azure File Storage offer a combination of SSDs and HDDs to optimize performance



and

cost.

**QUESTION 6**

DRAG DROP

Match the Azure SQL services to the appropriate use cases.

To answer, drag the appropriate service from the column on the left to its use case on the right. Each service may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

**Azure SQL services**

Azure SQL Database elastic pool

Azure SQL Database single database

Azure SQL Managed Instance

**Answer Area**

A serverless configuration

A database that has the highest compatibility with on-premises Microsoft SQL Server

A low-cost, low-maintenance database

Correct Answer:



**Azure SQL services**


**Answer Area**

Azure SQL Database single database	A serverless configuration
Azure SQL Database elastic pool	A database that has the highest compatibility with on-premises Microsoft SQL Server
Azure SQL Managed Instance	A low-cost, low-maintenance database

**QUESTION 7**

**HOTSPOT**

Select the answer that correctly completes the sentence.

Hot Area:

An Azure Storage account must have 

	▼
Blob soft delete	
Hierarchical namespace	
Large file shares	
Versioning	

 enabled to support Azure Data Lake Storage.

Correct Answer:

An Azure Storage account must have 

	▼
Blob soft delete	
Hierarchical namespace	
Large file shares	
Versioning	

 enabled to support Azure Data Lake Storage.

**QUESTION 8**



For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

Yes No

Azure Data Studio can be used to query an Azure SQL database from a device that runs macOS.

Microsoft SQL Server Management Studio (SSMS) enables users to create and use SQL notebooks.

Azure Data Studio can be used to restore a database.

Correct Answer:

Yes No

Azure Data Studio can be used to query an Azure SQL database from a device that runs macOS.

Microsoft SQL Server Management Studio (SSMS) enables users to create and use SQL notebooks.

Azure Data Studio can be used to restore a database.

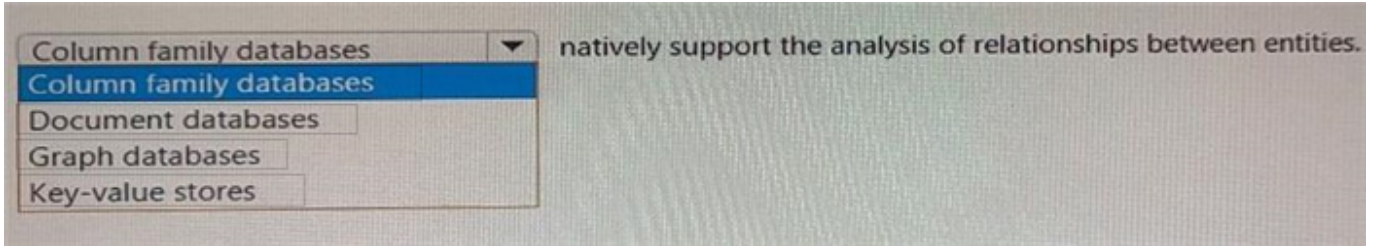
 

### QUESTION 9

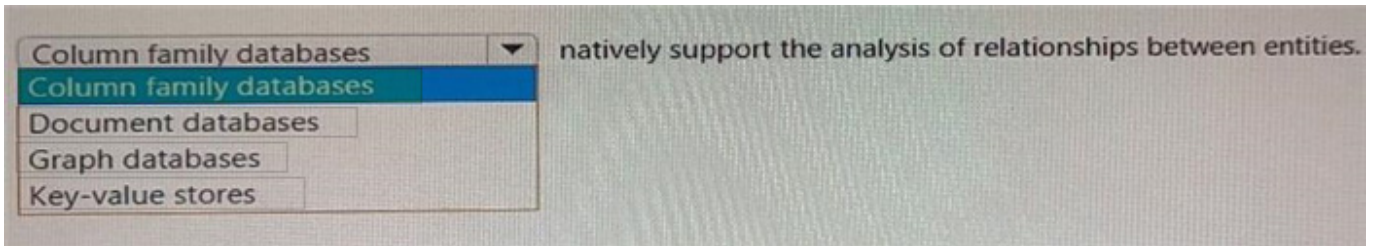
#### HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:



Correct Answer:



**QUESTION 10**

**HOTSPOT**

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Statements	Yes	No
Platform as a service (PaaS) database offerings in Azure provide built-in high availability.	<input type="checkbox"/>	<input type="checkbox"/>
Platform as a service (PaaS) database offerings in Azure provide configurable scaling options.	<input type="checkbox"/>	<input type="checkbox"/>
Platform as a service (PaaS) database offerings in Azure reduce the administrative overhead for managing hardware.	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:





### Answer Area

Statements	Yes	No
Platform as a service (PaaS) database offerings in Azure provide built-in high availability.	<input checked="" type="radio"/>	<input type="radio"/>
Platform as a service (PaaS) database offerings in Azure provide configurable scaling options.	<input checked="" type="radio"/>	<input type="radio"/>
Platform as a service (PaaS) database offerings in Azure reduce the administrative overhead for managing hardware.	<input checked="" type="radio"/>	<input type="radio"/>

Reference: <https://docs.microsoft.com/en-us/azure/azure-sql/database/sql-database-paas-overview>

### QUESTION 11

DRAG DROP

Match the terms to the appropriate descriptions.

To answer, drag the appropriate term from the column on the left to its description on the right. Each term may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

Correct Answer:



### QUESTION 12

#### HOTSPOT

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

The massively parallel processing (MPP) engine of Azure  
Synapse Analytics

	▼
distributes processing across compute nodes.	
distributes processing across control nodes.	
redirects client connections across compute nodes.	
redirects client connections across control nodes.	

Correct Answer:

The massively parallel processing (MPP) engine of Azure  
Synapse Analytics

	▼
distributes processing across compute nodes.	
distributes processing across control nodes.	
redirects client connections across compute nodes.	
redirects client connections across control nodes.	

Reference: <https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/massively-parallel-processing-mpp-architecture>

### QUESTION 13

#### HOTSPOT

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:



Statements	Yes	No
If you have a platform as a service (PaaS) database in Azure, you are responsible for applying operating system updates.	<input type="radio"/>	<input type="radio"/>
If you have a platform as a service (PaaS) database in Azure, backups are performed automatically.	<input type="radio"/>	<input type="radio"/>
If you have a platform as a service (PaaS) database in Azure, you are responsible for installation of the database engine.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Statements	Yes	No
If you have a platform as a service (PaaS) database in Azure, you are responsible for applying operating system updates.	<input type="radio"/>	<input checked="" type="radio"/>
If you have a platform as a service (PaaS) database in Azure, backups are performed automatically.	<input checked="" type="radio"/>	<input type="radio"/>
If you have a platform as a service (PaaS) database in Azure, you are responsible for installation of the database engine.	<input type="radio"/>	<input checked="" type="radio"/>

### QUESTION 14

DRAG DROP

Match the Azure Cosmos DB APIs to the appropriate data structures.

To answer, drag the appropriate API from the column on the left to its data structure on the right. Each API may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:



<b>Cassandra API</b>	<input type="checkbox"/>	<b>Graph data</b>
<b>Gremlin API</b>	<input type="checkbox"/>	<b>JSON documents</b>
<b>MongoDB API</b>	<input type="checkbox"/>	<b>Key/value data</b>
<b>Table API</b>	<input type="checkbox"/>	

Correct Answer:

<b>Cassandra API</b>	<b>Gremlin API</b>	<b>Graph data</b>
<input type="checkbox"/>	<b>MongoDB API</b>	<b>JSON documents</b>
<input type="checkbox"/>	<b>Table API</b>	<b>Key/value data</b>
<input type="checkbox"/>		

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/faq>

**QUESTION 15**

**HOTSPOT**

Select the answer that correctly completes the sentence.

Hot Area:



XML-formatted files are examples of

▼
relational data.
semi-structured data.
unstructured data.

Correct Answer:

XML-formatted files are examples of

▼
relational data.
semi-structured data.
unstructured data.

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