

DP-900^{Q&As}

Microsoft Azure Data Fundamentals

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QUESTION 1

You have an Azure Cosmos DB account that uses the Core (SQL) API.

Which two settings can you configure at the container level? Each correct answer presents a complete solution. (Choose two.)

NOTE: Each correct selection is worth one point.

- A. the throughput
- B. the read region
- C. the partition key
- D. the API

Correct Answer: AC

Reference: <https://www.sqlshack.com/start-your-journey-with-azure-cosmos-db/>

QUESTION 2

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
Azure Table storage within a single Azure Storage account supports multiple concurrent reads in different Azure regions.	<input type="radio"/>	<input type="radio"/>
Azure Table storage within a single Azure Storage account supports multiple concurrent writes in different Azure regions.	<input type="radio"/>	<input type="radio"/>
An Azure Cosmos DB account that uses the Table API supports multiple concurrent reads in different Azure regions.	<input type="radio"/>	<input type="radio"/>
An Azure Cosmos DB account that uses the Table API supports multiple concurrent writes in different Azure regions.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Statements	Yes	No
Azure Table storage within a single Azure Storage account supports multiple concurrent reads in different Azure regions.	<input checked="" type="radio"/>	<input type="radio"/>
Azure Table storage within a single Azure Storage account supports multiple concurrent writes in different Azure regions.	<input type="radio"/>	<input checked="" type="radio"/>
An Azure Cosmos DB account that uses the Table API supports multiple concurrent reads in different Azure regions.	<input checked="" type="radio"/>	<input type="radio"/>
An Azure Cosmos DB account that uses the Table API supports multiple concurrent writes in different Azure regions.	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: Yes For read access to the secondary region, configure your storage account to use read- access geo-redundant storage (RA-GRS) or read-access geo-zone-redundant storage (RA-GZRS).

Box 2: No

Box 3: Yes Box 4: Yes Azure Cosmos DB supports multi-region writes.

QUESTION 3

DRAG DROP

Match the types of analytics that can be used to answer the business questions.

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

NOTE: Each correct match is worth one point.

Select and Place:

Analytics Types

Answer Area

Cognitive

Why did sales increase last month?

Diagnostic

Provide specific guidance on how to allocate current budget to buy different inventory items.

Descriptive

Predictive

Detect images of the company's logo included in PDF documents

Prescriptive

Correct Answer:

Analytics Types

Answer Area

Diagnostic

Why did sales increase last month?

Prescriptive

Provide specific guidance on how to allocate current budget to buy different inventory items.

Descriptive

Predictive

Detect images of the company's logo included in PDF documents

Box 1: Diagnostic

Diagnostic Analytics: At this stage you can begin to answer some of those why questions. Historical data can begin to be measured against other data to answer the question of why something happened in the past. This is the process of gathering and interpreting different data sets to identify anomalies, detect patterns, and determine relationships.

Box 2: Prescriptive

Prescriptive analytics is a combination of data, mathematical models, and various business rules to infer actions to influence future desired outcomes.

Incorrect Answer:

Predictive analytics, broadly speaking, is a category of business intelligence that uses descriptive and predictive variables from the past to analyze and identify the likelihood of an unknown future outcome

Box 3: Cognitive

Reference:

<https://demand-planning.com/2020/01/20/the-differences-between-descriptive-diagnostic-predictive-cognitive-analytics/>

<https://azure.microsoft.com/en-us/blog/answering-whats-happening-whys-happening-and-what-will-happen-with-iot-analytics/>

QUESTION 4

HOTSPOT

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

Hot Area:

Answer Area

	▼
A heap	
A stored procedure	
A view	
An index	

presents content defined by a query.

Correct Answer:

Answer Area

	▼
A heap	
A stored procedure	
A view	
An index	

presents content defined by a query.

QUESTION 5

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

A non-relational database

	▼
imposes a fixed schema on data	
store entities without a unique key value	
stores data in relational tables	
stores data without a fixed schema	

Correct Answer:

Answer Area

A non-relational database

	▼
imposes a fixed schema on data	
store entities without a unique key value	
stores data in relational tables	
stores data without a fixed schema	

QUESTION 6

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

The Azure Cosmos DB

	▼
for NoSQL	
for Apache Gremlin	
for MongoDB	
for Table	

API enables the use of `SELECT` statements to retrieve documents from Azure Cosmos DB.

Correct Answer:

Answer Area

The Azure Cosmos DB

	▼
for NoSQL	
for Apache Gremlin	
for MongoDB	
for Table	

API enables the use of `SELECT` statements to retrieve documents from Azure Cosmos DB.

QUESTION 7

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.

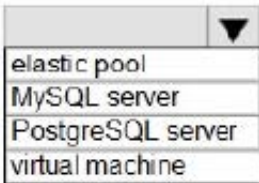
QUESTION 8

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

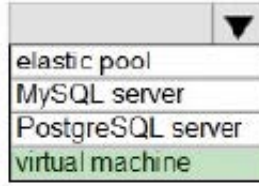
In an infrastructure as a service (IaaS) instance of Microsoft SQL Server on Azure, you manage the  that hosts SQL Server

- elastic pool
- MySQL server
- PostgreSQL server
- virtual machine

Correct Answer:

Answer Area

In an infrastructure as a service (IaaS) instance of Microsoft SQL Server on Azure, you manage the



that hosts SQL Server

SQL Server on Azure VM SQL Server on Azure VM falls into the industry category Infrastructure-as-a-Service (IaaS) and allows you to run SQL Server inside a fully managed virtual machine (VM) in Azure. The most significant difference from SQL Database and SQL Managed Instance is that SQL Server on Azure Virtual Machines allows full control over the database engine. You can choose when to start maintenance/patching, change the recovery model to simple or bulk-logged, pause or start the service when needed, and you can fully customize the SQL Server database engine. With this additional control comes the added responsibility to manage the virtual machine. Reference: <https://docs.microsoft.com/en-us/azure/azure-sql/azure-sql-iaas-vs-paas-what-is-overview?view=azuresql>

QUESTION 9

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
The Cool access tier is the default tier of an Azure Storage account.	<input type="radio"/>	<input type="radio"/>
Append blobs are optimized for random read and write operations.	<input type="radio"/>	<input type="radio"/>
Retrieving data from the Archive access tier takes hours to complete.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
The Cool access tier is the default tier of an Azure Storage account.	<input type="radio"/>	<input checked="" type="radio"/>
Append blobs are optimized for random read and write operations.	<input type="radio"/>	<input checked="" type="radio"/>
Retrieving data from the Archive access tier takes hours to complete.	<input checked="" type="radio"/>	<input type="radio"/>

QUESTION 10

Which database transaction property ensures that transactional changes to a database are preserved during unexpected operating system restarts?

- A. consistency
- B. durability
- C. isolation
- D. atomicity

Correct Answer: B

QUESTION 11

Which Azure Cosmos DB API should you use for a graph database?

- A. Table
- B. Cassandra
- C. NoSQL
- D. Gremlin

Correct Answer: D

QUESTION 12

Which type of database is Azure Database for PostgreSQL?

- A. Platform as a service (PaaS)
- B. Infrastructure as a service (IaaS)

C. Microsoft SQL Server

D. on-premises

Correct Answer: A

Reference: <https://docs.microsoft.com/en-us/azure/postgresql/overview-postgres-choose-server-options>

QUESTION 13

Which statement is an example of Data Manipulation Language (DML)?

A. INSERT

B. DISABLE

C. ALTER

D. DROP

Correct Answer: A

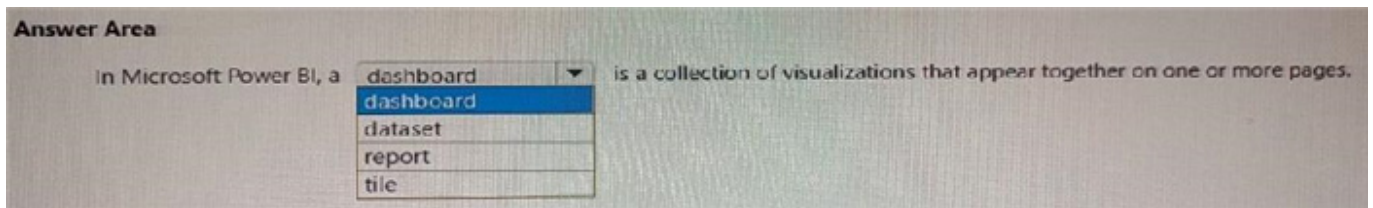
Data Manipulation Language (DML) statements: DELETE INSERT UPDATE Reference: <https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-reference-tsql-statements>

QUESTION 14

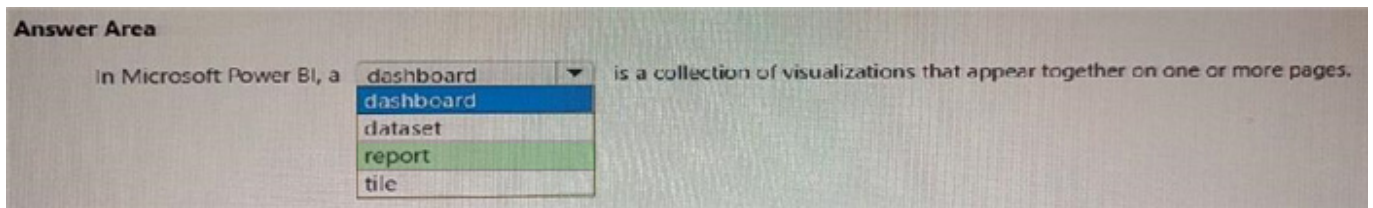
HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:



Correct Answer:



QUESTION 15

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
A job that processes sales data once daily is an example of a batch workload.	<input type="checkbox"/>	<input type="checkbox"/>
A job that calculates a rolling average temperature reading is an example of a streaming workload.	<input type="checkbox"/>	<input type="checkbox"/>
A job that calculates average revenue per product for the last month is an example of a streaming workload.	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:

Statements	Yes	No
A job that processes sales data once daily is an example of a batch workload.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
A job that calculates a rolling average temperature reading is an example of a streaming workload.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
A job that calculates average revenue per product for the last month is an example of a streaming workload.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Box 1: Yes Batch processing refers to processing of high volume of data in batch within a specific time span. It processes large volume of data all at once. Batch processing is used when data size is known and finite. It takes little longer time to processes data.

Box 2: Yes

Stream processing refers to processing of continuous stream of data immediately as it is produced. It analyzes streaming data in real time. Stream processing is used when the data size is unknown and infinite and continuous.

Box 3: No

Reference:

<https://www.geeksforgeeks.org/difference-between-batch-processing-and-stream-processing/>

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