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Microsoft Azure Data Fundamentals

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QUESTION 1

In Azure Table storage, each row in a table must be uniquely identified by which two components? Each correct answer presents pan of the solution. NOTE: Each correct selection is worth one point.

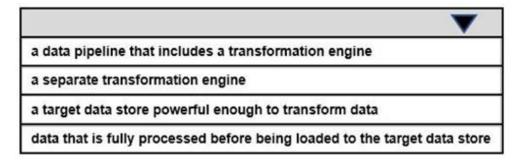A. a timestamp

B. a range

C. a row key

D. a partition key

Correct Answer: CD

QUESTION 2

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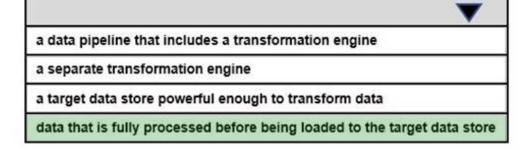
Hot Area:

An extract, load, and transform (ELT) process required	▼
	a data pipeline that includes a transformation engine
	a separate transformation engine
	a target data store powerful enough to transform data
	data that is fully processed before being loaded to the target data store

Correct Answer:

An extract, load, and transform (ELT) process required	▼
	a data pipeline that includes a transformation engine
	a separate transformation engine
	a target data store powerful enough to transform data
	data that is fully processed before being loaded to the target data store

QUESTION 3

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.	○	○
A job that calculates a rolling average temperature reading is an example of a streaming workload.	○	○
A job that calculates average revenue per product for the last month is an example of a streaming workload.	○	○

Correct Answer:

Statements	Yes	No
A job that processes sales data once daily is an example of a batch workload.	○	○
A job that calculates a rolling average temperature reading is an example of a streaming workload.	○	○
A job that calculates average revenue per product for the last month is an example of a streaming workload.	○	○

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/

QUESTION 4

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 5

HOTSPOT

You plan to deploy a PostgreSQL database to Azure.

Which hosting model corresponds to the available deployment options? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

PostgreSQL on Azure VMs:

| Infrastructure as a service (IaaS) |
| Platform as a service (PaaS) |
| Software as a service (SaaS) |

Azure Database for PostgreSQL:

| Infrastructure as a service (IaaS) |
| Platform as a service (PaaS) |
| Software as a service (SaaS) |

Correct Answer:

Answer Area

PostgreSQL on Azure VMs:

Infrastructure as a service (IaaS)
Platform as a service (PaaS)
Software as a service (SaaS)

Azure Database for PostgreSQL:

Infrastructure as a service (IaaS)
Platform as a service (PaaS)
Software as a service (SaaS)

Reference: https://azure.microsoft.com/en-us/overview/what-is-saas/ https://azure.microsoft.com/en-us/overview/what-is-paas/

QUESTION 6

You have an Azure SQL database that you access directly from the Internet.

You recently changed your external IP address.

After changing the IP address, you can no longer access the database. You can connect to other resources in Azure.

What is a possible cause of the issue?

A. a database-level firewall

B. role-based access control (RSAC)

C. Dynamic Host Configuration Protocol (DHCP)

D. Domain Name Service (DNS)

Correct Answer: A

The Azure SQL Database firewall lets you decide which IP addresses may or may not have access to either your Azure SQL Server or your Azure SQL database. When creating an Azure SQL Database, the firewall needs to be configured before anyone will be able to access the database. By default, no external access to your SQL Database will be allowed until you explicitly assign permission by creating a firewall rule.

Reference: https://www.sqlshack.com/configuring-the-azure-sql-database-firewall/

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:

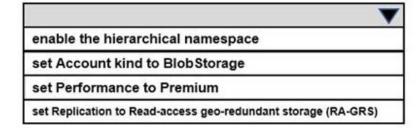| Statements	Yes	No
Data stored in the Hot access tier of Azure Blob storage is stored on high-performance media.	○	○
The Cool access tier in Azure Blob storage incurs higher storage costs compared to the Hot access tier.	○	○
The Archive access tier in Azure Blob storage has the highest latency of the three available tiers.	○	○

Correct Answer:

Statements	Yes	No
Data stored in the Hot access tier of Azure Blob storage is stored on high-performance media.	○	○
The Cool access tier in Azure Blob storage incurs higher storage costs compared to the Hot access tier.	○	○
The Archive access tier in Azure Blob storage has the highest latency of the three available tiers.	○	○

QUESTION 8

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

Hot Area:

To configure an Azure Storage account to support both security at the folder level and atomic directory manipulation.

▼
enable the hierarchical namespace
set Account kind to BlobStorage
set Performance to Premium
set Replication to Read-access geo-redundant storage (RA-GRS)

Correct Answer:

To configure an Azure Storage account to support both security at the folder level and atomic directory manipulation.

enable the hierarchical namespace
set Account kind to BlobStorage
set Performance to Premium
set Replication to Read-access geo-redundant storage (RA-GRS)

A key mechanism that allows Azure Data Lake Storage Gen2 to provide file system performance at object storage scale and prices is the addition of a hierarchical namespace. This allows the collection of objects/files within an account to be organized into a hierarchy of directories and nested subdirectories in the same way that the file system on your computer is organized. With a hierarchical namespace enabled, a storage account becomes capable of providing the scalability and cost-effectiveness of object storage, with file system semantics that are familiar to analytics engines and frameworks.

Reference: https://docs.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-namespace

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QUESTION 9

What is required to provision Azure Data Lake Storage in an Azure Storage account?

A. Versioning must be enabled.

B. Hierarchical namespace must be enabled.

C. Hierarchical namespace must be disabled.

D. Versioning must be disabled.

Correct Answer: B

QUESTION 10

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

A clustered index [▼] is an object associated with a table that sorts and stores data rows based on their key values.

Correct Answer:

| A clustered index ▼ | is an object associated with a table that sorts |

and stores data rows based on their key values.

QUESTION 11

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

| Cognitive |
| Diagnostic |
| Descriptive |
| Predictive |
| Prescriptive |

Answer Area

Why did sales increase last month?

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

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

Correct Answer:

Analytics Types

Answer Area

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 patters, 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 12

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

Hot Area:

Transparent Data Encryption (TDE) encrypts	a column to protect data at rest and in transit.
	queries and their results in order to protect data in transit.
	the database to protect data at rest.
	the server to protect data at rest.

Correct Answer:

Transparent Data Encryption (TDE) encrypts	a column to protect data at rest and in transit.
	queries and their results in order to protect data in transit.
	the database to protect data at rest.
	the server to protect data at rest.

QUESTION 13

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

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

| distributes processing across compute nodes. | ▼ |

Correct Answer:

The massively parallel processing (MPP) engine

of Azure Synapse Analytics

distributes processing across compute nodes. ▼

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