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Microsoft Azure Data Fundamentals

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Question: 45

HOTSPOT

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

Answer 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).	

Answer:

Answer 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).	

Question: 46

What Is a benefit of hosting a database on Azure SQL managed instance as compared to an Azure SQL database?

- A. native support for cross-database queries and transactions
- B. built-in high availability
- C. system-Initiated automatic backups
- D. support for encryption at rest

Answer: A

Explanation:

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

Question: 47

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.

Analytics Types Answer Area

Cognitive		Why did sales increase last month?
Diagnostic		How do I allocate my budget to buy different inventory items?
Descriptive		Which people are mentioned in a company's business documents?
Predictive		
Prescriptive		

Answer:
Analytics Types Answer Area

Cognitive	Diagnostic	Why did sales increase last month?
Diagnostic	Predictive	How do I allocate my budget to buy different inventory items?
Descriptive	Cognitive	Which people are mentioned in a company's business documents?
Predictive		
Prescriptive		

Explanation:

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

Question: 48

DRAG DROP

Match the types of data to the appropriate Azure data services.

To answer, drag the appropriate data types from the column on the left to its service on the right. Each data type may be used once, more than once, or not at all. NOTE: Each correct match is worth one point.

Data Types	Answer Area	
Image files	Data Type	Azure Blob storage
Relationships between employees	Data Type	Azure Cosmos DB Gremlin API
Key/value pairs	Data Type	Azure Table storage

Answer:

Data Types	Answer Area	
Image files	Image files	Azure Blob storage
Relationships between employees	Key/value pairs	Azure Cosmos DB Gremlin API
Key/value pairs	Relationships between employees	Azure Table storage

Explanation:

Box 1: Image files

Azure Blob storage is suitable for image files.

Box 2: Key/value pairs

Azure CosmosDB table API is a key-value storage hosted in the cloud.

Box 3: Relationship between employees

One-to-many relationships between business domain objects occur frequently: for example, one department has many employees. There are several ways to implement one-to-many relationships in the Azure Table service.

Reference: <https://docs.microsoft.com/en-us/azure/storage/tables/table-storage-design-modeling>

Question: 49

What are two benefits of platform as a service (PaaS) relational database offerings in Azure, such as Azure SQL Database? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. complete control over backup and restore processes
- B. access to the latest features
- C. in-database machine learning services
- D. reduced administrative effort for managing the server infrastructure

Answer: B, C

Explanation:

Azure SQL Database is a fully managed platform as a service (PaaS) database engine that handles most of the database management functions such as upgrading, patching, backups, and monitoring without user involvement.

SQL Database delivers predictable performance with multiple resource types, service tiers, and compute sizes. It provides dynamic scalability with no downtime, built-in intelligent optimization, global scalability and availability, and advanced security options. These capabilities allow you to focus on rapid app development and accelerating your time-to-market, rather than on managing virtual machines and infrastructure.

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

Question: 50

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.

Answer Area

Statements	Yes	No
Azure Synapse Analytics scales storage and compute independently.	☐	☐
Azure Synapse Analytics can be paused to reduce compute costs.	☐	☐
An Azure Synapse Analytics data warehouse has a fixed storage capacity.	☐	☐

Answer:

Answer Area

Statements	Yes	No
Azure Synapse Analytics scales storage and compute independently.	☒	☐
Azure Synapse Analytics can be paused to reduce compute costs.	☒	☐
An Azure Synapse Analytics data warehouse has a fixed storage capacity.	☐	☒

Question: 51

HOTSPOT

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

A visualization that shows a university's current student enrollment versus the maximum capacity is an example of

cognitive

descriptive

predictive

prescriptive

analytics.

Answer:

A visualization that shows a university's current student enrollment versus the maximum capacity is an example of

cognitive

descriptive

predictive

prescriptive

analytics.

Explanation:

Generally speaking, data analytics comes in four types:

Descriptive, to answer the question: What's happening?

Diagnostic, to answer the question: Why's happening?

Predictive, to answer the question: What will happen?

Prescriptive, to answer the question: What actions should we take?



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

Question: 52

What should you use to build a Microsoft Power BI paginated report?

- A. Power BI report Builder
- B. Power BI Desktop
- C. Charticulator
- D. the Power BI service

Answer: A

Explanation:

Power BI Report Builder is the standalone tool for authoring paginated reports for the Power BI service.

<https://docs.microsoft.com/en-us/power-bi/paginated-reports/paginated-reports-quickstart-aw>

Question: 53

HOTSPOT

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

Answer Area

In batch processing,

	▼
data is always inserted one row at a time.	
data is processed in real-time.	
latency is expected.	
processing can only execute serially.	

Answer:

Answer Area

In batch processing,

	▼
data is always inserted one row at a time.	
data is processed in real-time.	
latency is expected.	
processing can only execute serially.	

Explanation:

Reference: <https://www.bmc.com/blogs/what-is-batch-processing-batch-processing-explained/>

Question: 54

Your company needs to ensure that in Azure virtual machine can connect to Azure SQL databases without exposing the databases to the internet.

What should you use?

- A. Azure DNS
- B. Azure Application Gateway
- C. Azure Private link
- D. Azure Traffic Manager

Answer: C

Explanation:

Azure Private Link enables you to access Azure PaaS Services (for example, Azure Storage and SQL Database) and Azure hosted customer-owned/partner services over a private endpoint in your virtual network.

Traffic between your virtual network and the service travels the Microsoft backbone network. Exposing your service to the public internet is no longer necessary

Reference: <https://techcommunity.microsoft.com/t5/azure-database-support-blog/azure-sql-db-private-link-private-endpoint-connectivity/ba-p/1235573>

Question: 55

You need to recommend a non-relational data store that is optimized for storing and retrieving files, videos, audio stream, and virtual disk images. The data store must store data, some metadata, and a unique ID for each file.

Which type of data store should you recommend?

- A. document
- B. key/value
- C. object
- D. columnar

Answer: C

Explanation:

Object storage is optimized for storing and retrieving large binary objects (images, files, video and audio streams, large application data objects and documents, virtual machine disk images). Large data files are also popularly used in this model, for example, delimiter file (CSV), parquet, and ORC. Object stores can manage extremely large amounts of unstructured data.

Reference: <https://docs.microsoft.com/en-us/azure/architecture/guide/technology-choices/data-store-overview>

Question: 56

You have a SQL query that combines customer data and order data. The query includes calculated columns.

You need to persist the SQL query so that other users can use the query.

What should you create?

- A. a table
- B. an index
- C. scalar function
- D. a view

Answer: D

Explanation:

A view is a virtual table whose contents are defined by a query. A view acts as a filter on the underlying tables referenced in the view. The query that defines the view can be from one or more tables or from other views in the current or other databases.

Reference: <https://docs.microsoft.com/en-us/sql/relational-databases/views/views>

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