



Number: DP-900
Passing Score: 800
Time Limit: 120 min



DP-900

Microsoft Azure Data Fundamentals





Exam A			
QUESTION 1			
HOTSPOT			
To complete the sentence, select the appropriate option in the answer area.			
Hot Area:			
	wer Area		
	Descriptive analytics tells you		
	what is most likely to occ		uture.
	what occurred in the past.		
	which actions you can per		
	why something occurred i	n the past.	â
Correct Answer:			
	wer Area		
1111	Wei Tited		
	Descriptive analytics tells you		[s
	what is most likely to occ	ur in the fi	uture.
	what occurred in the past.		
	which actions you can per		
	why something occurred i	n the past.	â
	VCEUP		
Section: Describe core data concepts	_		
Explanation			
Explanation/Reference:			
Reference: https://demand-planning.com/2020/01/20/the-differences-betwee analytics/	en-descriptive-diagnostic-predictive-cognitive-		
QUESTION 2 HOTSPOT			
	omiting applicatible		
For each of the following statements, select Yes if the statement is true. Oth	erwise, select No.		
NOTE: Each correct selection is worth one point.			
Hot Area:			
	Answer Area		
	Statements	Yes	No
	30,500,10 testino (50 testino		
	Normalization involves eliminating relationships	0	0
	between database tables.		
	Normalizing a database reduces data redundancy.		
	romanzing a database reduces data redundancy.	0	0
	Normalization improves data integrity.	0	0
Correct Answer:			



Statements	Yes	No
Normalization involves eliminating relatibetween database tables.	onships	0
Normalizing a database reduces data redu	ndancy.	0
Normalization improves data integrity.	0	0

Section: Describe core data concepts Explanation

Explanation/Reference:

Reference: https://www.sqlshack.com/what-is-database-normalization-in-sql-server/

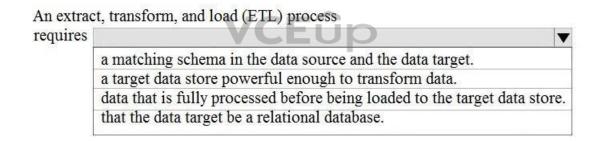
QUESTION 3

HOTSPOT

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

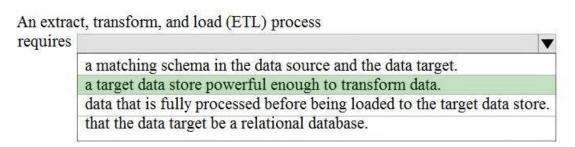
Hot Area:

Answer Area



Correct Answer:

Answer Area



Section: Describe core data concepts Explanation

Explanation/Reference:

Explanation:

In the ELT pipeline, the transformation occurs in the target data store. ELT only works well when the target system is powerful enough to transform the data efficiently.

Incorrect Answers:



The data does not need to be fully processed: Often, the three ETL phases are run in parallel to save time. For example, while data is being extracted, a transformation process could be working on data already received and prepare it for loading, and a loading process can begin working on the prepared data, rather than waiting for the entire extraction process to complete.

• The target does need to be a relational database.

Reference: https://docs.microsoft.com/en-us/azure/architecture/data-guide/relational-data/etl

QUESTION 4

HOTSPOT

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

Hot 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.

Correct 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.

Section: Describe core data concepts Explanation

Explanation/Reference:

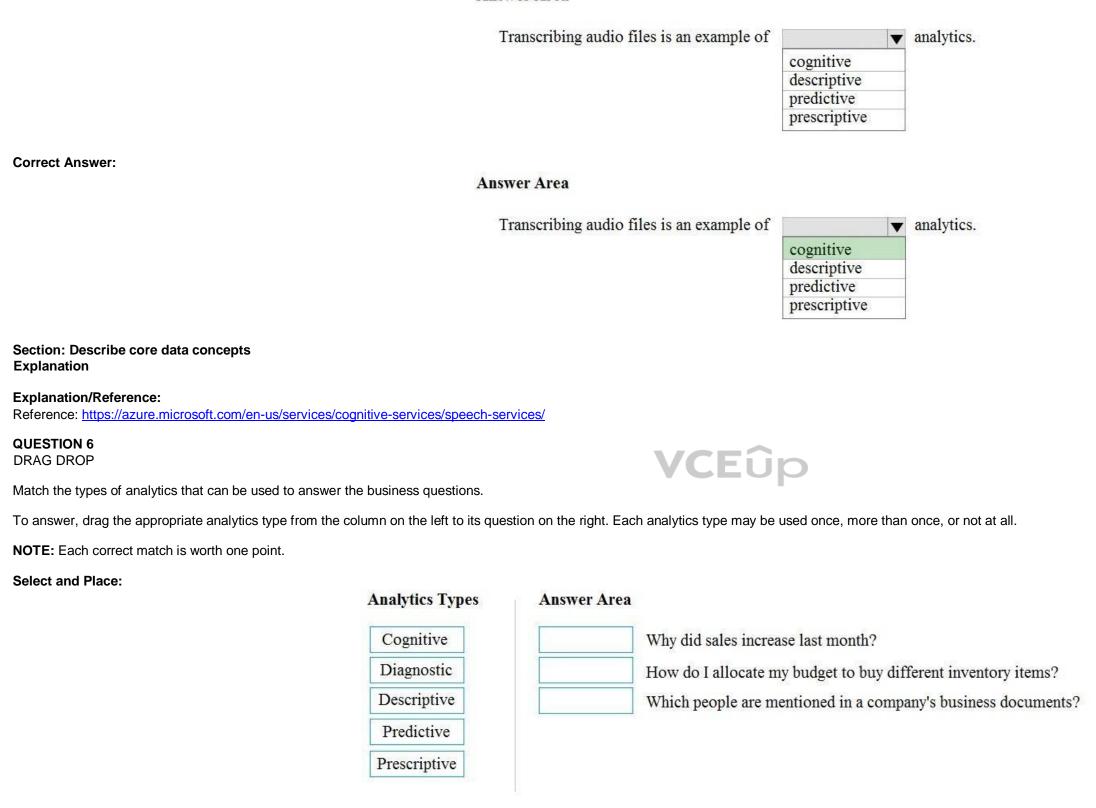
 $\label{lem:recomblogs/what-is-batch-processing-batch-pr$

QUESTION 5

HOTSPOT

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





Correct Answer:

IT Exam Dumps – Learn Anything | VCEup.com



Analytics Types Cognitive Diagnostic Diagnostic Descriptive Predictive Prescriptive Answer Area Diagnostic Prescriptive How do I Descriptive Which percondents to the percondent of the percon

Answer Area

Diagnostic Why did sales increase last month?

Prescriptive How do I allocate my budget to buy different inventory items?

Descriptive Which people are mentioned in a company's business documents?

Section: Describe core data concepts Explanation

Explanation/Reference:

Explanation:

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.

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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: Descriptive

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://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 7 HOTSPOT

You have the following JSON document.



```
"customer" : {
   "first name" : "Ben",
   "last name" : "Smith",
    "address" : {
        "line 1" : "161 Azure Ln",
        "line 2" : "Palo Alto",
         "ZIP code" : "54762"
   },
    "social media": [
           "service": "twitter",
           "handle" : "@bensmith"
           "service": "linkedin",
           "handle" : "bensmith"
   ],
   "phone numbers": [
            "type": "mobile",
            "number": "555-555-555"
```

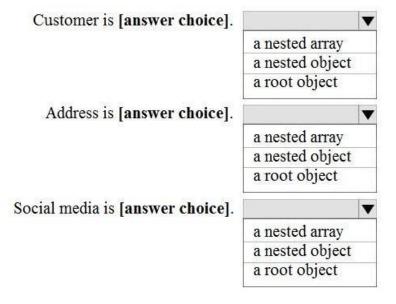


Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the JSON document.

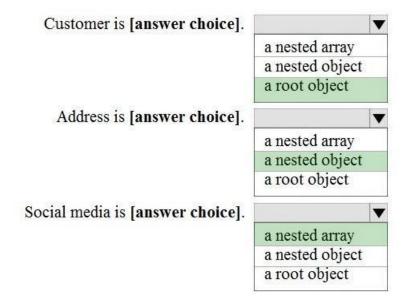
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area







Section: Describe core data concepts Explanation

Explanation/Reference:

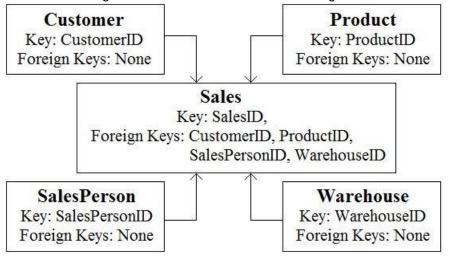
Reference:

https://www.w3schools.com/js/js_json_arrays.asp https://www.w3schools.com/js/js_json_objects.asp

QUESTION 8

HOTSPOT

You are reviewing the data model shown in the following exhibit.

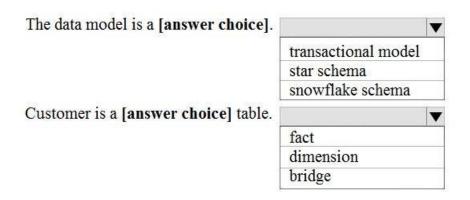




Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic. NOTE:

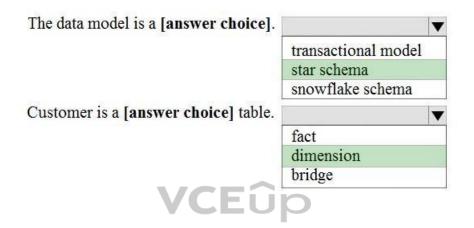
Each correct selection is worth one point





Correct Answer:

Answer Area



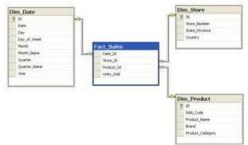
Section: Describe core data concepts Explanation

Explanation/Reference:

Explanation:

Box 1: star schema

In computing, the star schema is the simplest style of data mart schema and is the approach most widely used to develop data warehouses and dimensional data marts. The star schema consists of one or more fact tables referencing any number of dimension tables. The star schema is an important special case of the snowflake schema, and is more effective for handling simpler queries. Example:

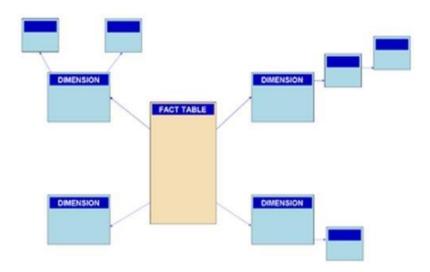


Incorrect Answers:

The data in the question is not normalized.

The snowflake schema is a variation of the star schema, featuring normalization of dimension tables. Example:





Note: A snowflake schema is a logical arrangement of tables in a multidimensional database such that the entity relationship diagram resembles a snowflake shape. The snowflake schema is represented by centralized fact tables which are connected to multiple dimensions. [citation needed]. "Snowflaking" is a method of normalizing the dimension tables in a star schema. When it is completely normalized along all the dimension tables, the resultant structure resembles a snowflake with the fact table in the middle.

Box 2: dimension

The star schema consists of one or more fact tables referencing any number of dimension tables.

Reference:

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-overview

https://en.wikipedia.org/wiki/Star_schema https://en.wikipedia.org/wiki/Snowflake_schema

https://azure.microsoft.com/en-us/blog/data-models-within-azure-analysis-services-and-power-bi/

QUESTION 9

HOTSPOT

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

Hot Area:

Answer 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.

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Correct Answer:

Answer 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.



Section: Describe core data concepts

Explanation

Explanation/Reference:

Reference:

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

QUESTION 10

HOTSPOT

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

Hot Area:

Correct Answer:

Section: Describe core data concepts

Explanation

Explanation/Reference:

Reference:

https://docs.microsoft.com/en-us/sql/relational-databases/indexes/clustered-and-nonclustered-indexes-described?view=sql-server-ver15

QUESTION 11

HOTSPOT

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

Hot Area:

Explanation

Correct Answer:

Section: Describe core data concepts

Explanation/Reference:

Explanation:

Disadvantages of non-relational databases include: Data Consistency — non-relational databases do not perform ACID transactions.

Note: Relational databases are optimized for writes. They are optimized for consistency and availability. Advantages of relational databases include simplicity, ease of data retrieval, data integrity, and flexibility.

Incorrect Answers:

Use a relational database when data that you work with is structured, and the structure is not subject to frequent changes.

Use Cloud storage (no relational database) for geographically distributed writes.

Reference: https://towardsdatascience.com/choosing-the-right-database-

c45cd3a28f77

QUESTION 12

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:

Correct Answer:

Section: Describe core data concepts

Explanation

VCEûp



Explanation/Reference:

Explanation:

Box 1: Yes

Big data solutions often use long-running batch jobs to filter, aggregate, and otherwise prepare the data for analysis. Usually these jobs involve reading source files from scalable storage (like HDFS, Azure Data Lake Store, and Azure Storage), processing them, and writing the output to new files in scalable storage.

Box 2: No

Box 3: No

Reference:

https://docs.microsoft.com/en-us/azure/architecture/data-guide/big-data/batch-processing

QUESTION 13

DRAG DROP

Your company plans to load data from a customer relationship management (CRM) system to a data warehouse by using an extract, load, and transform (ELT) process.

Where does data processing occur for each stage of the ELT process? To answer, drag the appropriate locations to the correct stages. Each location 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.

NOTE: Each correct selection is worth one point.

Select and Place:

Correct Answer:

Section: Describe core data concepts Explanation

Explanation/Reference:

Explanation:

Box 1: The CRM system

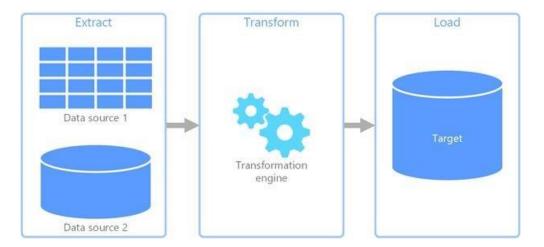
Data is extracted from the CRM system.

Box 2: The data warehouse

Data is loaded to the data warehouse.

Box 3: An in-memory data integration tool

The data transformation that takes place usually involves various operations, such as filtering, sorting, aggregating, joining data, cleaning data, deduplicating, and validating data.



Reference: https://docs.microsoft.com/en-us/azure/architecture/data-guide/relational-data/etl





QUESTION 14

HOTSPOT

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

Hot Area:

Correct Answer:

Section: Describe core data concepts

Explanation

Explanation/Reference:

Explanation:

Generally speaking, data analytics comes in four types (Figure 1):

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 15

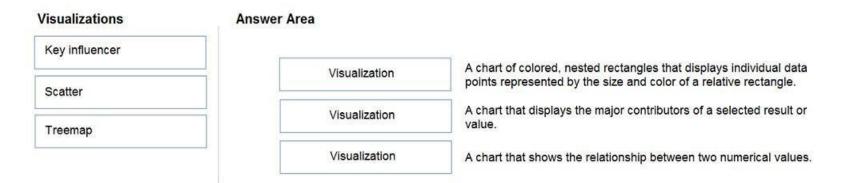
DRAG DROP

Match the types of visualizations to the appropriate descriptions.

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

NOTE: Each correct match is worth one point.

Select and Place:





Visualizations	Answer Area	
Key influencer		
Scatter	Treemap	A chart of colored, nested rectangles that displays individual data points represented by the size and color of a relative rectangle.
Counci	Key influencer	A chart that displays the major contributors of a selected result or value.
Treemap		value.
	Scatter	A chart that shows the relationship between two numerical values.

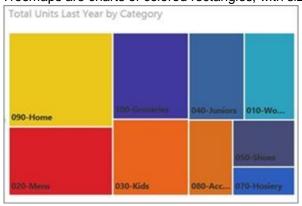
Section: Describe core data concepts Explanation

Explanation/Reference:

Explanation:

Box 1: Tree map

Treemaps are charts of colored rectangles, with size representing value. They can be hierarchical, with rectangles nested within the main rectangles.





Box 2: Key influencer

A key influencer chart displays the major contributors to a selected result or value.

Box 3: Scatter

Scatter and Bubble charts display relationships between 2 (scatter) or 3 (bubble) quantitative measures -- whether or not, in which order, etc.

QUESTION 16 You need to create an Azure

Storage account.

Data in the account must replicate outside the Azure region automatically.

Which two types of replication can you use for the storage account? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. zone-redundant storage (ZRS)
- B. read-access geo-redundant storage (RA-GRS)
- C. locally-redundant storage (LRS)
- D. geo-redundant storage (GRS)

Correct Answer: BD

Section: Describe core data concepts

Explanation

Explanation/Reference:



Explanation:

D: Azure Storage offers two options for copying your data to a secondary region:

- Geo-redundant storage (GRS)
- Geo-zone-redundant storage (GZRS)

B: With GRS or GZRS, the data in the secondary region isn't available for read or write access unless there is a failover to the secondary region. 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).

Reference:

https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy#redundancy-in-a-secondary-region

QUESTION 17

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:

Correct Answer:

Section: Describe core data concepts Explanation

Explanation/Reference:

Explanation:

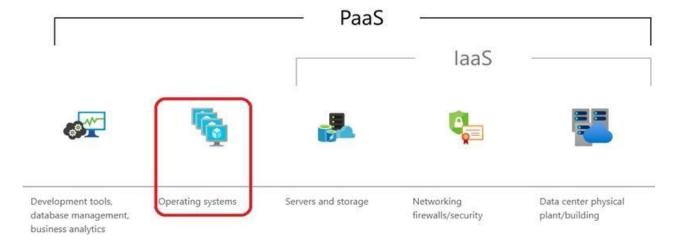
Box 1: Yes

Like laaS, PaaS includes infrastructure – servers, storage, and networking – but also middleware, development tools, business intelligence (BI) services, database management systems, and more. PaaS is designed to support the complete web application lifecycle: building, testing, deploying, managing, and updating.

PaaS allows you to avoid the expense and complexity of buying and managing software licenses, the underlying application infrastructure and middleware, container orchestrators such as Kubernetes, or the development tools and other resources

Box 2: Yes

You manage the applications and services you develop, and the cloud service provider typically manages everything else.



Box 3: No

There really is no way to pause / stop billing for your Azure SQL Database.

Microsoft's official answer "Yes, you can export your database. Delete the Azure SQL database and that will pause billing. Then when you need it you can create a new database and import your previously exported DB."

Reference: https://feedback.azure.com/forums/217321-sql-database/suggestions/6931152-please-add-ability-to-temporarily-turn-off-on-sql



QUESTION 18 Which	statement is an	example of	Data Manipu	lation
Language (DML)?				

A. REVOKE

B. DISABLE

C. INSERT

D. GRANT

Correct Answer: C

Section: Describe core data concepts

Explanation

Explanation/Reference:

Explanation:

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 19 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. an index

B. a view

C. a scalar function

D. a table

Correct Answer: B

Section: Describe core data concepts

Explanation

Explanation/Reference:

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.

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Reference:

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

QUESTION 20

HOTSPOT

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

Hot Area:

Correct Answer:

Section: Describe core data concepts

Explanation



Explanation/Reference:

Explanation:

Box 1: simple lookups

A key/value store associates each data value with a unique key. Most key/value stores only support simple query, insert, and delete operations. To modify a value (either partially or completely), an application must overwrite the existing data for the entire value. In most implementations, reading or writing a single value is an atomic operation.

An application can store arbitrary data as a set of values. Any schema information must be provided by the application. The key/value store simply retrieves or stores the value by key.

Reference:

https://docs.microsoft.com/en-us/azure/architecture/quide/technology-choices/data-store-overview

QUESTION 21

DRAG DROP

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

To answer, drag the appropriate data type 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.

Select and Place:

Correct Answer:

Section: Describe core data concepts

Explanation

Explanation/Reference:

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 22

DRAG DROP

Match the Azure Data Lake Storage terms to the appropriate levels in the hierarchy.

To answer, drag the appropriate term from the column on the left to its level 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:

Section: Describe core data concepts

Explanation

Explanation/Reference:

Explanation:





Box 1: Azure Storage account

Azure file shares are deployed into storage accounts, which are top-level objects that represent a shared pool of storage.

Box 2: File share

Reference: https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-create-file-

QUESTION 23 What are two characteristics of real-time data processing? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Data is processed periodically

B. Low latency is expected

C. High latency is acceptable

D. Data is processed as it is created

Correct Answer: BD

Section: Describe core data concepts

Explanation

Explanation/Reference:

Explanation:

Real time processing deals with streams of data that are captured in real-time and processed with minimal latency to generate real-time (or near-real-time) reports or automated responses.

Reference: https://docs.microsoft.com/en-us/azure/architecture/data-guide/big-data/real-time-processing

QUESTION 24

DRAG DROP

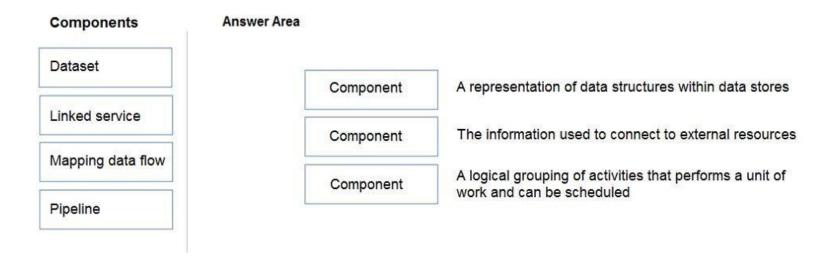


Match the Azure Data Factory components to the appropriate descriptions.

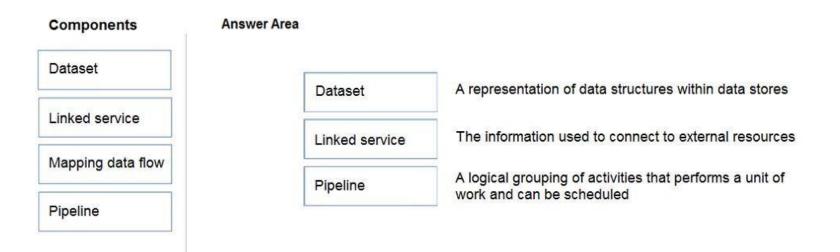
To answer, drag the appropriate component from the column on the left to its description on the right. Each component may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:







Section: Describe core data concepts Explanation

Explanation/Reference:

Explanation:

Box 1: Dataset

Datasets must be created from paths in Azure datastores or public web URLs, for the data to be accessible by Azure Machine Learning.

Box 2: Linked service

Linked services are much like connection strings, which define the connection information needed for Data Factory to connect to external resources.

Box 3: Pipeline

A pipeline is a logical grouping of activities that together perform a task.

 $\textbf{Reference:}\ \underline{\text{https://k21academy.com/microsoft-azure/dp-100/datastores-and-datasets-in-datasets$

https://docs.microsoft.com/en-us/azure/data-factory/concepts-pipelines-activities

azure/ https://docs.microsoft.com/en-us/azure/data-factory/concepts-linked-services

QUESTION 25

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:



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Batch	Data for a product catalog will be loaded every 12 hours to a data warehouse.
Streaming	Data for online purchases will be loaded to a data warehouse as the purchases occur.
Batch	Updates to inventory data will be loaded to a data warehouse every 1,000 transactions.
	Streaming

Section: Describe core data concepts Explanation

Explanation/Reference:

Explanation:

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.

VCEûp

Box 3: Batch

Reference:

https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/batch-processing

QUESTION 26

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

Hot Area:

HOTSPOT

Answer 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:

Answer 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.



Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Reference: <a href="https://docs.microsoft.com/en-us/azure/azure-sql/database/transparent-data-encryption-tde-overview?tabs=azure-sql/database/transparent-data-encryption-tde-overview?tabs=azure-sql/database/transparent-data-encryption-tde-overview?tabs=azure-sql/database/transparent-data-encryption-tde-overview?tabs=azure-sql/database/transparent-data-encryption-tde-overview?tabs=azure-sql/database/transparent-data-encryption-tde-overview?tabs=azure-sql/database/transparent-data-encryption-tde-overview?tabs=azure-sql/database/transparent-data-encryption-tde-overview?tabs=azure-sql/database/transparent-data-encryption-tde-overview?tabs=azure-sql/database/transparent-data-encryption-tde-overview?tabs=azure-sql/database/transparent-data-encryption-tde-overview?tabs=azure-sql/database/transparent-data-encryption-tde-overview?tabs=azure-sql/database/transparent-data-encryption-tde-overview?tabs=azure-sql/database/transparent-data-encryption-tde-overview?tabs=azure-sql/database/tabs-azure-sql/database/ta

porta

QUESTION 27 You need to ensure that users use multi-factor authentication (MFA) when connecting to an Azure SQL database.

Which type of authentication should you use?

A. service principal authentication

B. Azure Active Directory (Azure AD) authentication

C. SQL authentication

D. certificate authentication

Correct Answer: B

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Reference: https://docs.microsoft.com/en-us/azure/azure-sql/database/authentication-mfa-ssms-overview

QUESTION 28 What is a benefit of hosting a database on Azure SQL managed instance as compared to an Azure

SQL database?

A. built-in high availability

B. native support for cross-database queries and transactions

C. system-initiated automatic backups

D. support for encryption at rest

Correct Answer: B

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

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

comparison

QUESTION 29

HOTSPOT

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

Hot Area:

Answer Area

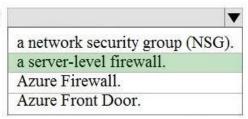
By default, each Azure SQL database is protected by

a network security group (NSG).
a server-level firewall.
Azure Firewall.
Azure Front Door.





By default, each Azure SQL database is protected by



Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Explanation:

When you create a new server in Azure SQL Database or Azure Synapse Analytics named mysqlserver, for example, a server-level firewall blocks all access to the public endpoint for the server

Reference: https://docs.microsoft.com/en-us/azure/security/fundamentals/infrastructure-sql

QUESTION 30

You need to design and model a database by using a graphical tool that supports project-oriented offline database development.

What should you use?

- A. Microsoft SQL Server Data Tools (SSDT)
- B. Microsoft SQL Server Management Studio (SSMS)
- C. Azure Databricks
- D. Azure Data Studio

Correct Answer: A

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Reference:

https://docs.microsoft.com/en-us/sql/ssdt/project-oriented-offline-database-development?view=sql-server-ver15

QUESTION 31

DRAG DROP

Match the security components to the appropriate scenarios.

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

NOTE: Each correct match is worth one point.

Select and Place:

Components	Answer Area	
Authentication		Prevent access to an Azure SQL database from another network.
Firewall		Support Azure Active Directory (Azure AD) sign-ins to an Azure SQL database.
Encryption		Ensure that sensitive data never appears as plain text in an Azure SQL database.

VCEûp



Authentication Firewall Firewall Encryption Answer Area Firewall Firewall Encryption Answer Area Firewall Firewall Encryption Ensure that sensitive data never appears as plain text in an Azure SQL database.

Section: Describe how to work with relational data on Azure Explanation

Explanation/Reference:

Reference:

https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-a-windows-firewall-for-database-engine-access?view=sql-server-ver15 https://docs.microsoft.com/en-us/sql/database-engine-access?view=sql-server-ver15 https://docs.microsoft.com/en-us/sql/database-engine-access.view=sql-server-ver15 https://docs.microsoft.com/en-us/sql/database-engine-access.view=sql-server-ver15 https://doc

us/azure/azure-sql/database/authentication-aad-overview https://docs.microsoft.com/en-us/azure/azure-sql/database/always-encrypted-certificate-store-configure

QUESTION 32 You have a transactional application that stores data in an Azure SQL managed instance.

When should you implement a read-only database replica?

- A. You need to generate reports without affecting the transactional workload.
- B. You need to audit the transactional application.
- C. You need to implement high availability in the event of a regional outage.
- D. You need to improve the recovery point objective (RPO).

Correct Answer: A

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Explanation:

Use read-only replicas to offload read-only query workloads.

Reference:

https://docs.microsoft.com/en-us/azure/azure-sql/database/read-scale-out

QUESTION 33

HOTSPOT

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

Hot Area:

Answer Area

A relational database must be used when

a dynamic schema is required.
data will be stored as key/value pairs.
storing large images and videos.
strong consistency guarantees are required.





A relational database must be used when

a dynamic schema is required.
data will be stored as key/value pairs.
storing large images and videos.
strong consistency guarantees are required.

Section: Describe how to work with relational data on Azure Explanation

Explanation/Reference:

QUESTION 34

HOTSPOT

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

Hot Area:

Answer Area

Relational data uses

collections
columns
keys
partitions

to enforce relationships between different tables.

Correct Answer:

Answer Area

Relational data uses

collections
columns
keys
partitions

to enforce relationships between different tables.

Section: Describe how to work with relational data on Azure Explanation

Explanation/Reference:

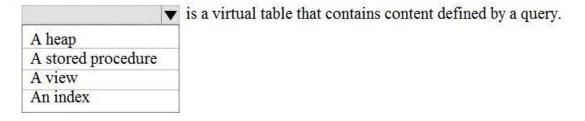
Reference: https://teachcomputerscience.com/relational-databases/

QUESTION 35

HOTSPOT

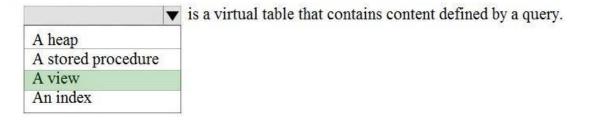
To complete the sentence, select the appropriate option in the answer area.





Correct Answer:

Answer Area



Section: Describe how to work with relational data on Azure Explanation

Explanation/Reference:

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

QUESTION 36 You need to query a table named Products in an Azure SQL database.



Which three requirements must be met to query the table from the internet? Each correct answer presents part of the solution. (Choose three.)

NOTE: Each correct selection is worth one point.

- A. You must be assigned the Reader role for the resource group that contains the database.
- B. You must have SELECT access to the Products table.
- C. You must have a user in the database.
- D. You must be assigned the Contributor role for the resource group that contains the database.
- E. Your IP address must be allowed to connect to the database.

Correct Answer: BCE

Section: Describe how to work with relational data on Azure Explanation

Explanation/Reference:

Explanation:

Incorrect Answers:

A, D: Resource group permissions is not required to query an Azure SQL database table.

Reference: https://docs.microsoft.com/en-us/sql/relational-databases/security/authentication-access/getting-started-with-database-engine-permissions?view=sql-server-ver15

QUESTION 37

You have an inventory management database that contains the following table.



ProductName	Quantity
Product1	100
Product2	129
Product3	176

Which statement should you use in a SQL query to change the inventory quantity of Product1 to 270?

A. INSERT

B. MERGE

C. UPDATE

D. CREATE

Correct Answer: C

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Reference: https://docs.microsoft.com/en-us/sql/t-sql/queries/update-transact-sql?view=sql-server-ver15

QUESTION 38 Your company needs to implement a relational database in Azure. The solution must minimize ongoing maintenance.

Which Azure service should you use?

A. Azure HDInsight

B. Azure SQL Database

C. Azure Cosmos DB

D. SQL Server on Azure virtual machines

Correct Answer: B

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Reference:

https://azure.microsoft.com/en-us/services/sql-database/#features

QUESTION 39

You are writing a set of SQL queries that administrators will use to troubleshoot an Azure SQL database.

You need to embed documents and query results into a SQL notebook.

What should you use?

A. Microsoft SQL Server Management Studio (SSMS)

B. Azure Data Studio

C. Azure CLI

D. Azure PowerShell

Correct Answer: B

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Reference:

https://www.mssqltips.com/sqlservertip/5997/create-sql-server-notebooks-in-azure-data-studio/





QUESTION 40

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:

Terms

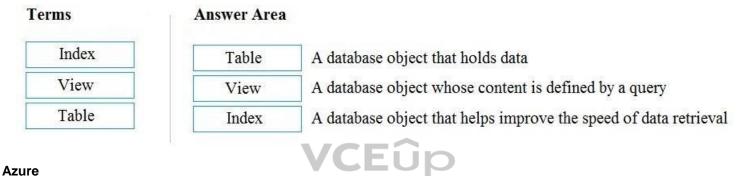
Answer Area

Index
A database object that holds data

View
A database object whose content is defined by a query

Table
A database object that helps improve the speed of data retrieval

Correct Answer:



Section: Describe how to work with relational data on Azure Explanation

Explanation/Reference:

Reference:

https://en.wikipedia.org/wiki/Table (database)#:~:text=A%20table%20is%20a%20collection,table%20format%20within%20a%20database.&text=In%20relational%20databases%2C%20and%20flat,a%20row%20and%20column%20intersect.

https://en.wikipedia.org/wiki/View_(SQL)

https://en.wikipedia.org/wiki/Database_index#:~:text=A%20database%20index%20is%20a,maintain%20the%20index%20data%20structure.

QUESTION 41 You have an e-commerce application that reads and writes data to an Azure SQL database.

Which type of processing does the application use?

- A. stream processing
- B. batch processing
- C. Online Analytical Processing (OLAP)
- D. Online Transaction Processing (OLTP)

Correct Answer: D

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Explanation:

OLTP is designed to serve as a persistent data store for business or front-end applications. OLTP administers day to day transaction of an organization.

IT Exam Dumps – Learn Anything | VCEup.com



Reference:

https://sqlwizard.blog/2020/03/15/sql-server-oltp-vs-olap/

QUESTION 42

When can you use an Azure Resource Manager template?

A. to automate the creation of an interdependent group of Azure resources in a repeatable way

B. to apply Azure policies for multi-tenant deployments

C. to provision Azure subscriptions

D. to control which services and feature administrators and developers can deploy from the Azure portal

Correct Answer: A

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Explanation:

You can automate deployments and use the practice of infrastructure as code. In code, you define the infrastructure that needs to be deployed

To implement infrastructure as code for your Azure solutions, use Azure Resource Manager templates (ARM templates). The template is a JavaScript Object Notation (JSON) file that defines the infrastructure and configuration for your project. The template uses declarative syntax, which lets you state what you intend to deploy without having to write the sequence of programming commands to create it. In the template, you specify the resources to deploy and the properties for those resources.

Reference: https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/overview

QUESTION 43 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. role-based access control (RBAC)

B. Dynamic Host Configuration Protocol (DHCP)

C. Domain Name Service (DNS)

D. a database-level firewall

Correct Answer: D

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Explanation:

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 44

DRAG DROP

Match the tools to the appropriate descriptions.

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

Select and Place:



Tools **Answer Area** A graphical tool for managing SQL Server or Azure SQL databases that Tool Azure Data Studio supports access, configuration, management, and administration tasks. Microsoft SQL Server Data A lightweight source code editor with an mssql extension that supports Tool Tools (SSDT) connections to SQL Server and a rich editing experience for T-SQL. Microsoft SQL Server A lightweight editor that can run on-demand SQL queries and view and save Tool Management Studio (SSMS) results as text, JSON, or Microsoft Excel files. Microsoft Visual Studio Code A development tool for building Azure SQL databases, Microsoft SQL Server Tool relational databases, SQL Server Analysis Services (SSAS) data models, SQL Server Integration Services (SSIS) packages, and SQL Server Reporting Services (SSRS) reports.

Correct Answer:

Tools	Answer Area	
Azure Data Studio	Microsoft SQL Server Management Studio (SSMS)	A graphical tool for managing SQL Server or Azure SQL databases that supports access, configuration, management, and administration tasks.
Microsoft SQL Server Data Tools (SSDT)	Microsoft Visual Studio Code	A lightweight source code editor with an mssql extension that supports connections to SQL Server and a rich editing experience for T-SQL.
Microsoft SQL Server Management Studio (SSMS)	Azure Data Studio	A lightweight editor that can run on-demand SQL queries and view and save results as text, JSON, or Microsoft Excel files.
Microsoft Visual Studio Code	Microsoft SQL Server Data Tools (SSDT)	A development tool for building Azure SQL databases, Microsoft SQL Server relational databases, SQL Server Analysis Services (SSAS) data models, SQL Server Integration Services (SSIS) packages, and SQL Server
		Reporting Services (SSRS) reports.

Section: Describe how to work with relational data on Azure **Explanation**

Explanation/Reference:

Explanation:

Box 1: Microsoft SQL Server Management Studio (SSMS)

SQL Server Management Studio (SSMS) is an integrated environment for managing any SQL infrastructure, from SQL Server to Azure SQL Database.

Box 2: Microsoft Visual Studio Code

Visual Studio Code is a streamlined code editor with support for development operations like debugging, task running, and version control. It aims to provide just the tools a developer needs for a quick code-build-debug cycle and leaves more complex workflows to fuller featured IDEs, such as Visual Studio IDE.

Box 3: Azure Data Studio

Azure Data Studio offers a modern, keyboard-focused SQL coding experience that makes your everyday tasks easier with built-in features, such as multiple tab windows, a rich SQL editor, IntelliSense, keyword completion, code snippets, code navigation, and source control integration (Git). Run on-demand SQL queries, view and save results as text, JSON, or Excel. Edit data, organize your favorite database connections, and browse database objects in a familiar object browsing experience.

Box 4: Microsoft SQL Server Data Tools (SSDT)

SQL Server Data Tools (SSDT) is a modern development tool for building SQL Server relational databases, databases in Azure SQL, Analysis Services (AS) data models, Integration Services (IS) packages, and Reporting Services (RS) reports. With SSDT, you can design and deploy any SQL Server content type with the same ease as you would develop an application in Visual Studio.



Reference: https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-

ssms https://code.visualstudio.com/docs/supporting/FAQ https://docs.microsoft.com/en-us/sql/azure-

data-studio/what-is-azure-data-studio https://docs.microsoft.com/en-us/sgl/ssdt/download-sgl-server-

data-tools-ssdt

QUESTION 45

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:

Correct Answer:

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Explanation:

Box 1: Yes

Tables are database objects that contain all the data in a database. In tables, data is logically organized in a row-and-column format similar to a spreadsheet. Each row represents a unique record, and each column represents a field in the record.

Box 2: No

An index is an on-disk structure associated with a table or view that speeds retrieval of rows from the table or view.

Box 3: Yes

A view is a virtual table whose contents are defined by a query. Like a table, a view consists of a set of named columns and rows of data.

Reference: https://docs.microsoft.com/en-us/sql/relational-databases/tables https://docs.microso

us/sql/relational-databases/indexes/clustered-and-nonclustered-indexes-described

https://docs.microsoft.com/en-us/sql/relational-databases/views/views?view=sql-server-ver15

QUESTION 46

Which command-line tool can you use to query Azure SQL databases?

A. sqlcmd

B. bcp

C. azdata

D. Azure CLI

Correct Answer: A

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Explanation:

The sqlcmd utility lets you enter Transact-SQL statements, system procedures, and script files at the command prompt.

Incorrect Answers:

B: The bulk copy program utility (bcp) bulk copies data between an instance of Microsoft SQL Server and a data file in a user-specified format.

D: The Azure CLI is the defacto tool for cross-platform and command-line tools for building and managing Azure resources.



QUESTION 47 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 Azure SQL Database includes a fully managed backup service. 0 Azure SQL Database has built-in high availability. 0 0 0 Azure SQL Database can use Azure Advanced Threat Protection (ATP). **Correct Answer:** Answer Area Statements Yes No Azure SQL Database includes a fully managed backup service. 0 Azure SQL Database has built-in high availability. 0 Azure SQL Database can use Azure Advanced Threat Protection (ATP). 0 Section: Describe how to work with relational data on Azure **Explanation Explanation/Reference:** Reference: https://docs.microsoft.com/en-us/azure/azure-sql/database/sql-database-paas-overview https://azure.microsoft.com/en-us/blog/announcing-sql-atp-and-sql-vulnerability-assessment-general-availability/ **QUESTION 48 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:

Reference: https://docs.microsoft.com/en-us/sql/tools/overview-sql-tools?view-sql-server-ver15



warehouse.

for MariaDB databases.

Statements	Yes	No
You can use Azure Data Studio to query a Microsoft SQL Server big data cluster.	0	0
You can use Microsoft SQL Server Management Studio (SSMS) to query an Azure Synapse Analytics data warehouse.	0	0
You can use MySQL Workbench to query Azure Database for MariaDB databases.	0	0
Answer Area		
Statements	Yes	No
You can use Azure Data Studio to query a Microsoft SQL Server big data cluster.	0	0
You can use Microsoft SQL Server Management Studio	ENGINEERING .	

0

0

(SSMS) to query an Azure Synapse Analytics data

You can use MySQL Workbench to query Azure Database for MariaDB databases

Section: Describe how to work with relational data on Azure **Explanation**

Explanation/Reference:

Correct Answer:

Reference: https://docs.microsoft.com/en-us/sql/big-data-cluster/connect-to-big-data-cluster?view=sql-server-ver15

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-query-ssms

https://docs.microsoft.com/en-us/azure/mariadb/connect-workbench

QUESTION 49

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.



Statements	Yes	No
Platform as a service (PaaS) database offerings in Azure provide built-in high availability.	0	0
Platform as a service (PaaS) database offerings in Azure provide configurable scaling options.	0	0
Platform as a service (PaaS) database offerings in Azure reduce the administrative overhead for managing hardware.	0	0

Correct Answer:

Answer Area

Statements	Yes	No
Platform as a service (PaaS) database offerings in Azure provide built-in high availability.	0	0
Platform as a service (PaaS) database offerings in Azure provide configurable scaling options.	0	0
Platform as a service (PaaS) database offerings in Azure reduce the administrative overhead for managing hardware.	0	0

Section: Describe how to work with relational data on Azure Explanation

Explanation/Reference:

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

QUESTION 50

HOTSPOT

You have the following SQL query.

```
INSERT INTO dbo.Products (ProductID, ProductName, Price, ProductDescription)
VALUES (1, 'Clamp', 12.48, 'Workbench clamp');
```

What are dbo.Products and ProductName? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



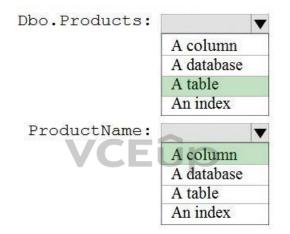
A column
A database
A table
An index

ProductName:

A column
A database
A table
An index

Correct Answer:

Answer Area



Section: Describe how to work with relational data on Azure Explanation

Explanation/Reference:

QUESTION 51

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.



Statements	Yes	No
You must apply patches to Azure SQL databases regularly.	0	0
You need a Microsoft 365 subscription to create an Azure SQL database.	0	0
You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases.	0	0

Correct Answer:

Answer Area

Statements	Yes	No
You must apply patches to Azure SQL databases regularly.	0	0
You need a Microsoft 365 subscription to create an Azure SQL database.	0	0
You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases.	0	0

Section: Describe how to work with relational data on Azure Explanation



Explanation/Reference:

Reference:

https://azure.microsoft.com/en-gb/blog/hot-patching-sql-server-engine-in-azure-sql-database/ https://azure-sql-server-engine-in-azur

us/services/sql-database/#product-overview

QUESTION 52 Which statement is an example of Data Definition Language (DDL)?

A. SELECT

B. JOIN

C. MERGE

D. CREATE

Correct Answer: D

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Reference: https://www.geeksforgeeks.org/difference-between-ddl-and-dml-in-dbms/

QUESTION 53

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:

Correct Answer:

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Explanation:

Box 1: Yes

Azure Data Studio is a cross-platform database tool for data professionals using on-premises and cloud data platforms on Windows, macOS, and Linux.

You can use Azure Data Studio to connect to an Azure SQL Database server. You'll then run Transact-SQL (T-SQL) statements to create and query Azure SQL databases.

Box 2: No

SQL Server Management Studio is for configuring, managing, and administering all components within Microsoft SQL Server, not to create SQL notebooks. Instead use Azure Data Studio to create SQL notebook.

Box 3: Yes

You can use the Azure Data Studio to restore databases.

Reference: <a href="https://docs.microsoft.com/en-us/sql/azure-data-studio/what-is-azure-data-studio/what-studio

<u>studio</u>

QUESTION 54

You are deploying a software as a service (SaaS) application that requires a relational database for Online Transaction Processing (OLTP).

Which Azure service should you use to support the application?

A. Azure Cosmos DB

B. Azure HDInsight

C. Azure SQL Database

D. Azure Synapse Analytics

Correct Answer: C

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Explanation:

Azure SQL Database is relational database and a managed service.

Incorrect Answers:

A, B: Cosmos DB, HDInsight are non-relational databases.

D: Azure Synapse Analytics is for data warehousing, not for Online Transaction Processing

 $\textbf{Reference:}\ \underline{\text{https://cloud.netapp.com/blog/azure-cvo-blg-azure-database-review-your-guide-for-database-review-your-g$

assessment

QUESTION 55

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. access to the latest features

B. complete control over backup and restore processes

C. in-database machine learning services

D. reduced administrative effort for managing the server infrastructure





Correct Answer: AD

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Explanation:

A: 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.

D: 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 56

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:

Correct Answer:

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Explanation:

Box 1: No

Microsoft handles all patching and updating of the SQL and operating system code. You don't have to manage the underlying infrastructure.

Box 2: Yes

SQL Database is a fully managed service that has built-in high availability, backups, and other common maintenance operations. Box

3: No

Reference:

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

QUESTION 57

DRAG DROP

You have a table named Sales that contains the following data.

SalesDate	SalesAmount	ProductID
4-Apr-20	\$2,000	1
5-Apr-20	\$40	2
5-Apr-20	\$2,300	1
6-Apr-20	\$40	3
6-Apr-20	\$200	4

You need to query the table to return the average sales amount per day. The output must produce the following results.



SalesDate	AVG(SalesAmount)
4-Apr-20	\$2,000
5-Apr-20	\$1,170
6-Apr-20	\$120

How should you complete the query? To answer, drag the appropriate values to the correct targets. Each value 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.

NOTE: Each correct selection is worth one point.

Select and Place:

Correct Answer:

Section: Describe how to work with relational data on Azure Explanation

Explanation/Reference:

Explanation:

Box 1: SELECT

Box 2: GROUP BY

Example:

When used with a GROUP BY clause, each aggregate function produces a single value covering each group, instead of a single value covering the whole table. The following example produces summary values for each sales territory in the AdventureWorks2012 database. The summary lists the average bonus received by the sales people in each territory, and the sum of year-to-date sales for each territory.

SELECT TerritoryID, AVG(Bonus)as 'Average bonus', SUM(SalesYTD) as 'YTD sales' FROM Sales.SalesPerson GROUP BY TerritoryID;



Reference:

https://docs.microsoft.com/en-us/sql/t-sql/functions/avg-transact-sql

QUESTION 58 When you create an Azure SQL database, which account can always connect to the database?

- A. the Azure Active Directory (Azure AD) account that created the database
- B. the server admin login account of the logical server
- C. the Azure Active Directory (Azure AD) administrator account
- D. the sa account

Correct Answer: B

Section: Describe how to work with relational data on Azure

Explanation

Explanation/Reference:

Explanation

When you first deploy Azure SQL, you specify an admin login and an associated password for that login. This administrative account is called Server admin.

Reference:

https://docs.microsoft.com/en-us/azure/azure-sql/database/single-database-create-quickstart

QUESTION 59 You manage an application that stores data in a shared folder on a Windows server.

You need to move the shared folder to Azure Storage.

Which type of Azure Storage should you use?



A. queue

B. blob

C. file

D. table

Correct Answer: C

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

Explanation:

Azure file shares can be mounted concurrently by cloud or on-premises deployments of Windows, Linux, and macOS. Azure file shares can also be cached on Windows Servers with Azure File Sync for fast access near where the data is being used.

VCEûp

Reference:

https://azure.microsoft.com/en-us/services/storage/files/

QUESTION 60

Your company is designing a database that will contain session data for a website. The data will include notifications, personalization attributes, and products that are added to a shopping cart.

Which type of data store will provide the lowest latency to retrieve the data?

A. key/value

B. graph

C. columnar

D. document

Correct Answer: C

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

Reference:

https://docs.microsoft.com/en-us/azure/architecture/data-quide/technology-choices/analytical-data-stores

QUESTION 61 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

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

Explanation:

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 62

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:

Correct Answer:

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

Explanation:

Box 1: No

The API determines the type of account to create. Azure Cosmos DB provides five APIs: Core (SQL) and MongoDB for document data, Gremlin for graph data, Azure Table, and Cassandra. Currently, you must create a separate account for each API.

VCEûp

Box 2: Yes

Azure Cosmos DB uses partitioning to scale individual containers in a database to meet the performance needs of your application. In partitioning, the items in a container are divided into distinct subsets called logical partitions. Logical partitions are formed based on the value of a partition key that is associated with each item in a container.

Box 3: No

Logical partitions are formed based on the value of a partition key that is associated with each item in a container.

Reference:

https://docs.microsoft.com/en-us/azure/cosmos-db/partitioning-overview

QUESTION 63

Your company is designing an application that will write a high volume of JSON data and will have an application-defined schema.

Which type of data store should you use?

A. columnar

B. key/value

C. document

D. graph

Correct Answer: B

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

Explanation:

A key/value store associates each data value with a unique key.

An application can store arbitrary data as a set of values. Any schema information must be provided by the application. The key/value store simply retrieves or stores the value by key.

Reference:

https://docs.microsoft.com/en-us/azure/architecture/quide/technology-choices/data-store-overview

QUESTION 64 You need to recommend a non-relational data store that is optimized for storing and retrieving text files, videos, audio streams, 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. key/value

B. columnar

C. object

D. document

Correct Answer: C

Section: Describe how to work with non-relational data on Azure Explanation



Explanation/Reference:

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 65 Your company is designing a data store for internet-connected temperature sensors.

The collected data will be used to analyze temperature trends.

Which type of data store should you use?

A. relational

B. time series

C. graph

D. columnar

Correct Answer: B

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

Explanation:

Time series data is a set of values organized by time. Time series databases typically collect large amounts of data in real time from a large number of sources. Updates are rare, and deletes are often done as bulk operations. Although the records written to a time-series database are generally small, there are often a large number of records, and total data size can grow rapidly.

Reference

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



QUESTION 66

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		No
When ingesting data from Azure Data Lake Storage across Azure regions, you will incur costs for bandwidth.	0	0
You can use blob, table, and file storage in the same Azure Storage account.	0	0
You implement Azure Data Lake Storage by creating an Azure Storage account.	0	0

Correct Answer:



Answer Area

Statements		Yes	No
	When ingesting data from Azure Data Lake Storage across Azure regions, you will incur costs for bandwidth.	0	0
	You can use blob, table, and file storage in the same Azure Storage account.	0	0
	You implement Azure Data Lake Storage by creating an Azure Storage account.	0	0

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

Reference:

https://docs.microsoft.com/en-us/azure/data-lake-store/data-lake-store-get-started-portal https://docs.microsoft.com/en-us/azure/data-lake-store-get-started-portal https://docs.microsoft.com/en-us

us/azure/storage/common/storage-account-overview https://azure.microsoft.com/en-us/pricing/details/bandwidth/

QUESTION 67

HOTSPOT

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

Hot Area:

Answer Area

VCEûp When using the Azure Cosmos DB Gremlin API, the container resource type is projected as a

graph. table. partition key. document.

Correct Answer:

Answer Area

When using the Azure Cosmos DB Gremlin API, the container resource type is projected as a

graph. table. partition key. document.

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

Reference: https://docs.microsoft.com/en-us/azure/cosmos-db/create-graph-gremlinconsole



solution. (Choose two.) NOTE: Each correct selection is worth one point.				
A. database B. item C. container D. partition				
Correct Answer: AC Section: Describe how to work with non-relational data on Azure I	Explanation			
Explanation/Reference: Reference: https://docs.microsoft.com/en-us/azure/cosmos-db/set-throughput				
QUESTION 69 HOTSPOT				
For each of the following statements, select Yes if the statement is true	e. Otherwise, select No.			
NOTE: Each correct selection is worth one point.				
Hot Area:				
	Answer Area			
	Statements	Yes	No	
	Azure Table storage supports multiple read replicas.	0	0	
	Azure Table storage supports multiple write regions.	0	0	
	The Azure Cosmos DB Table API supports multiple read replicas.	0	0	
	The Azure Cosmos DB Table API supports multiple write regions.	0	0	
Correct Answer:				
	Answer Area			
	Statements	Yes	No	
	Azure Table storage supports multiple read replicas.	0	0	
	Azure Table storage supports multiple write regions.	0	0	
	The Azure Cosmos DB Table API supports multiple read replicas.	0	0	
	The Azure Cosmos DB Table API supports multiple write regions.	0	0	
Section: Describe how to work with non-relational data on Azure Explanation				

Explanation/Reference:Reference: https://docs.microsoft.com/en-us/azure/cosmos-db/high-availability

VCEûp

QUESTION 70

DRAG DROP

Match the types of data stores to the appropriate scenarios.

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

NOTE: Each correct match is worth one point.

Select and Place:

 Data Store Types
 Answer Area

 Graph
 Application users and their default language

 Object
 Medical images and their associated metadata

 Key/value
 Employee data that shows the relationships between employees

Correct Answer:

Graph
Object
Key/value
Object
Medical images and their default language
Medical images and their associated metadata
Employee data that shows the relationships between employees

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

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

QUESTION 71 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

Section: Describe how to work with non-relational data on Azure

Explanation

Explanation/Reference:

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

db

QUESTION 72

Your company is designing a data store that will contain student data. The data has the following format.



StudentNumber	StudentInformation
	First name: Ben
7634634	Last: Smith
	Preferred Name: Benjamin
	First Name: Dominik
7634634	Last Name: Paiha
	Email Address: dpaiha@contoso.com
	MCP ID: 931817
	First Name: Reshma
7634636	Last Name: Patel
	Phone number: 514-555-1101
7624627	First Name: Yun-Feng
7634637	Last Name: Peng

Which type of data store should you use?

A. graph

B. key/value

C. object

D. columnar

Correct Answer: D

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

QUESTION 73 Which storage solution supports role-based access control (RBAC) at the file and folder level?

A. Azure Disk Storage

B. Azure Data Lake Storage

C. Azure Blob storage

D. Azure Queue storage

Correct Answer: B

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

Reference:

https://docs.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-access-control

OUESTION 7

You need to store data in Azure Blob storage for seven years to meet your company's compliance requirements. The retrieval time of the data is unimportant. The solution must minimize storage costs.

Which storage tier should you use?

A. Archive

B. Hot

C. Cool

Correct Answer: A

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:





Reference: https://cloud.netapp.com/blog/azure-blob-storage-pricing-the-complete-guide-azure-cvo-blg#H1 4

QUESTION 75

Which type of non-relational data store supports a flexible schema, stores data as JSON files, and stores the all the data for an entity in the same document?

A. document

B. columnar

C. graph

D. time series

Correct Answer: A

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

QUESTION 76

DRAG DROP

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

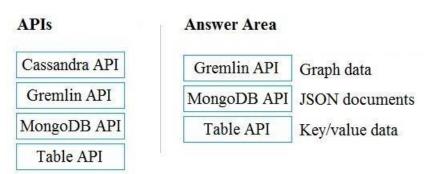
To answer, drag the appropriate API from the column on the left to its data structure on the right. Each API may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:



Correct Answer:



Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

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

QUESTION 77

HOTSPOT

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

Hot 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).

Correct Answer:

Answer Area

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

VCEûp

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

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

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

QUESTION 78

HOTSPOT

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

Hot Area:

Answer Area

You can query a graph database in Azure Cosmos DB

as a JSON document by using a SQL-like language.
as a partitioned row store by using Cassandra Query Language (CQL).
as a partitioned row store by using Language-Integrated Query (LINQ).
as nodes and edges by using the Gremlin language.

Correct Answer:

Answer Area

You can query a graph database in Azure Cosmos DB

as a JSON document by using a SQL-like language.
as a partitioned row store by using Cassandra Query Language (CQL).
as a partitioned row store by using Language-Integrated Query (LINQ).
as nodes and edges by using the Gremlin language.

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:





Reference:

https://www.sqlshack.com/graph-database-implementation-with-azure-cosmos-db-using-the-api/

QUESTION 79

When provisioning an Azure Cosmos DB account, which feature provides redundancy within an Azure region?

A. multi-master replication

B. Availability Zones

C. the strong consistency level

D. automatic failover

Correct Answer: B

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

Explanation:

With Availability Zone (AZ) support, Azure Cosmos DB will ensure replicas are placed across multiple zones within a given region to provide high availability and resiliency to zonal failures.

Note: Azure Cosmos DB provides high availability in two primary ways. First, Azure Cosmos DB replicates data across regions configured within a Cosmos account. Second, Azure Cosmos DB maintains 4 replicas of data within a region.

Reference

https://docs.microsoft.com/en-us/azure/cosmos-db/high-availability

QUESTION 80 What is a benefit of the Azure Cosmos DB Table API as compared to Azure

Table storage?

A. provides resiliency if an Azure region fails

B. supports partitioning

C. provides a higher storage capacity

D. supports a multi-master model

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Correct Answer: D

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

Explanation:

Multi-master support for Azure Cosmos DB is now available in all public regions.

Azure CosmosDB table API is a key-value storage hosted in the cloud. It's a part of Azure Cosmos DB, that is Microsoft's multi-model database.

Reference:

https://docs.microsoft.com/en-us/azure/cosmos-db/table-support

QUESTION 81

Your company needs to design a database that shows how changes in network traffic in one area of a network affect network traffic in other areas of the network.

Which type of data store should you use?

A. graph

B. key/value

C. document

D. columnar

Correct Answer: A

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

Explanation:

Data as it appears in the real world is naturally connected. Traditional data modeling focuses on defining entities separately and computing their relationships at runtime. While this model has its advantages, highly connected data can be challenging to manage under its constraints.



A graph database approach relies on persisting relationships in the storage layer instead, which leads to highly efficient graph retrieval operations. Azure Cosmos DB's Gremlin API supports the property graph model.

Reference:

https://docs.microsoft.com/en-us/azure/cosmos-db/graph-introduction#introduction-to-graph-databases

QUESTION 82

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:

Correct Answer:

Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

Explanation:

Box 1: Yes

Azure Databricks can consume data from SQL Databases using JDBC and from SQL Databases using the Apache Spark connector.

The Apache Spark connector for Azure SQL Database and SQL Server enables these databases to act as input data sources and output data sinks for Apache Spark jobs.

Box 2: Yes

You can stream data into Azure Databricks using Event Hubs.

Box 3: Yes

You can run Spark jobs with data stored in Azure Cosmos DB using the Cosmos DB Spark connector. Cosmos can be used for batch and stream processing, and as a serving layer for low latency access.

You can use the connector with Azure Databricks or Azure HDInsight, which provide managed Spark clusters on Azure.

Reference: https://docs.microsoft.com/en-us/azure/databricks/data/data-sources/sql-databases-

azure https://docs.microsoft.com/en-us/azure/databricks/scenarios/databricks-stream-from-

eventhubs

QUESTION 83

DRAG DROP

Match the datastore services to the appropriate descriptions.

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

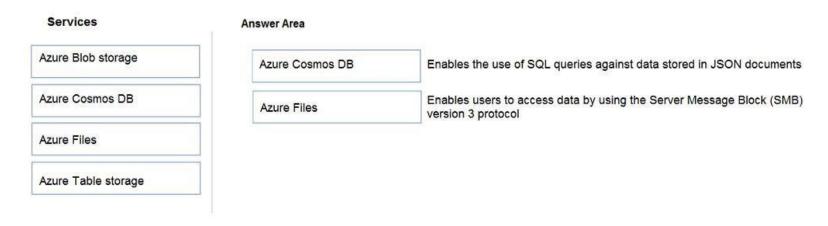
NOTE: Each correct match is worth one point.

Select and Place:



VCEûp

Correct Answer:



Section: Describe how to work with non-relational data on Azure Explanation

Explanation/Reference:

Explanation:

Box 1: Azure Cosmos DB

In Azure Cosmos DB's SQL (Core) API, items are stored as JSON. The type system and expressions are restricted to deal only with JSON types.

Box 2: Azure Files

Azure Files offers native cloud file sharing services based on the SMB protocol.

Reference: https://docs.microsoft.com/en-us/azure/cosmos-db/sql-query-working-with-json

https://cloud.netapp.com/blog/azure-smb-server-message-block-in-the-cloud-for-azure-files

QUESTION 84 You need to use Transact-SQL to query files in Azure Data Lake Storage from an Azure Synapse Analytics data warehouse.

What should you use to query the files?

A. Azure Functions

B. Microsoft SQL Server Integration Services (SSIS)

C. PolyBase

D. Azure Data Factory

Correct Answer: C

Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

 $\label{lem:reference:https://docs.databricks.com/data/data-sources/azure/synapse-analytics.html} \\ \text{Reference: $\underline{\text{https://docs.databricks.com/data/data-sources/azure/synapse-analytics.html}$} \\$

QUESTION 85

DRAG DROP

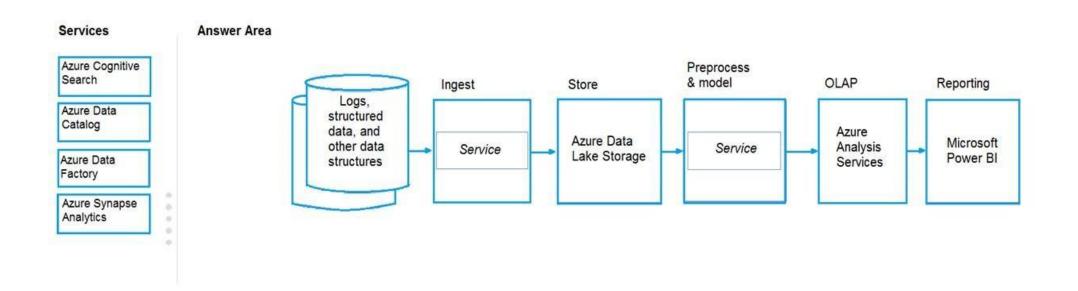
Match the Azure services to the appropriate locations in the architecture.

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

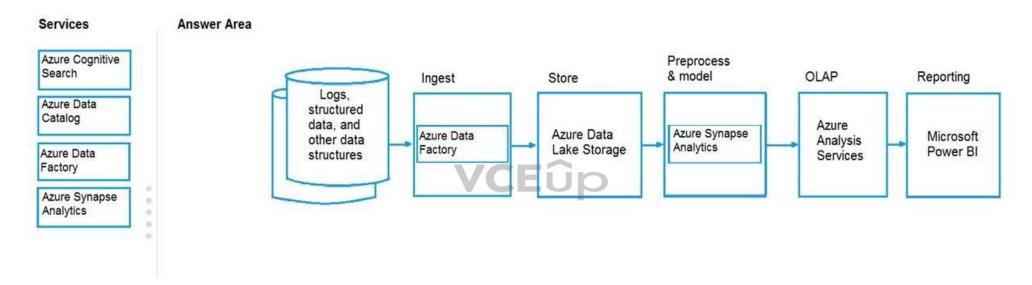
NOTE: Each correct match is worth one point.

Select and Place:





Correct Answer:



Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Explanation:

Box Ingest: Azure Data Factory

You can build a data ingestion pipeline with Azure Data Factory (ADF).

Box Preprocess & model: Azure Synapse Analytics

Use Azure Synapse Analytics to preprocess data and deploy machine learning models.

Reference: https://docs.microsoft.com/en-us/azure/machine-learning/how-to-data-ingest-adf

https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/sqldw-walkthrough

QUESTION 86

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.



Correct Answer:
Section: Describe an analytics workload on Azure Explanation
Explanation/Reference: Explanation:
Box 1: Batch The batch processing model requires a set of data that is collected over time while the stream processing model requires data to be fed into an analytics tool, often in micro-batches, and in real-time. The batch Processing model handles a large batch of data while the Stream processing model handles individual records or micro-batches of few records. In Batch Processing, it processes over all or most of the data but in Stream Processing, it processes over data on a rolling window or most recent record.
Box 2: Batch
Box 3: Streaming
Reference: https://k21academy.com/microsoft-azure/dp-200/batch-processing-vs-stream-processing
QUESTION 87 HOTSPOT
To complete the sentence, select the appropriate option in the answer area.
Hot Area:
Correct Answer:
Section: Describe an analytics workload on Azure Explanation Explanation/Reference:
Explanation/Reference: Explanation:
Note: The data warehouse workload encompasses: The entire process of loading data into the warehouse Performing data warehouse analysis and reporting Managing data in the data warehouse
• Exporting data from the data warehouse
Reference: https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-workload-management
QUESTION 88 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:
Correct Answer:
Section: Describe an analytics workload on Azure Explanation
Explanation/Reference: Explanation:
Box 1: No

Select and Place:



A pipeline is a logical grouping of activities that together perform a task.

Box 2: Yes

You can construct pipeline hierarchies with data factory.

Box 3: Yes

A pipeline is a logical grouping of activities that together perform a task.

Reference: <a href="https://mrpaulandrew.com/2019/09/25/azure-data-factory-pipeline-hierarchies-generation-data

control/

QUESTION 89

DRAG DROP

Match the Azure services to the appropriate requirements.

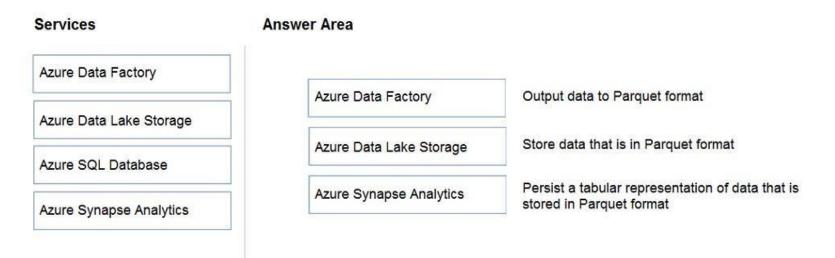
To answer, drag the appropriate service from the column on the left to its requirement on the right. Each service may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:



Correct Answer:



Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Explanation:



Box 1: Azure Data Factory

Box 2: Azure Data Lake Storage

Azure Data Lake Storage (ADLA) now natively supports Parquet files. ADLA adds a public preview of the native extractor and outputter for the popular Parquet file format

Box 3: Azure Synapse Analytics Use Azure

Synapse Analytics Workspaces.

Reference: https://docs.microsoft.com/en-us/azure/data-factory/supported-file-formats-and-compression-codecs

QUESTION 90

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:

Correct Answer:

Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Explanation:

Box 1: Yes

Compute is separate from storage, which enables you to scale compute independently of the data in your system.

Box 2: Yes

You can use the Azure portal to pause and resume the dedicated SQL pool compute resources.

Pausing the data warehouse pauses compute. If your data warehouse was paused for the entire hour, you will not be charged compute during that hour.

Box 3: No

Storage is sold in 1 TB allocations. If you grow beyond 1 TB of storage, your storage account will automatically grow to 2 TBs.

Reference:

https://azure.microsoft.com/en-us/pricing/details/synapse-analytics/

QUESTION 91 What should you use to build a Microsoft Power BI paginated report?

A. Charticulator

B. Power BI Desktop

C. the Power BI service

D. Power BI Report Builder

Correct Answer: D

Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Explanation:

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

Reference: https://docs.microsoft.com/en-us/power-bi/paginated-reports/paginated-reports-report-builder-power-

hi

QUESTION 92

DRAG DROP



Match the Azure services to the appropriate locations in the architecture.

To answer, drag the appropriate service from the column on the left to its location 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:

Correct Answer:

Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Explanation:

Box 1: Azure Data factory

Relevant Azure service for the three ETL phases are Azure Data Factory and SQL Server Integration Services (SSIS).

Box 2: Azure Synapse Analytics

You can copy and transform data in Azure Synapse Analytics by using Azure Data Factory

Note: Azure Synapse Analytics connector is supported for the following activities:

- Copy activity with supported source/sink matrix table
- Mapping data flow
- Lookup activity
- GetMetadata activity

Reference: https://docs.microsoft.com/en-us/azure/architecture/data-guide/relational-data/etl https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-sql-data-warehouse

QUESTION 93

HOTSPOT

VCEûp

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		No
Azure Databricks is an Apache Spark-based collaborative analytics platform.	0	0
Azure Analysis Services is used for transactional workloads.	0	0
Azure Data Factory orchestrates data integration workflows.	0	0

Correct Answer:



Answer Area

Statements		Yes	No
Azure Da analytics	tabricks is an Apache Spark-based collaborative platform.	0	0
Azure An	alysis Services is used for transactional workloads.	0	0
Azure Da	ta Factory orchestrates data integration workflows.	0	0

Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Reference:

https://docs.microsoft.com/en-us/azure/databricks/scenarios/what-is-azure-databricks https://docs.microsoft.com/en-

us/azure/analysis-services/analysis-services-overview https://docs.microsoft.com/en-us/azure/data-factory/introduction

QUESTION 94 Which scenario is an example of a streaming workload?

A. sending transactions that are older than a month to an archive

B. sending transactions daily from point of sale (POS) devices

C. sending telemetry data from edge devices

D. sending cloud infrastructure metadata every 30 minutes

Correct Answer: C

Section: Describe an analytics workload on Azure Explanation

VCEûp

Explanation/Reference:

QUESTION 95

HOTSPOT

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

Hot Area:

Answer Area

Batch workloads

process data in memory, row-by-row.
collect and process data at most once a day.
process data as new data is received in near real-time.
collect data and then process the data when a condition is met.

Correct Answer:



Answer Area

Batch workloads process data in memory, row-by-row. collect and process data at most once a day. process data as new data is received in near real-time. collect data and then process the data when a condition is met. Section: Describe an analytics workload on Azure Explanation **Explanation/Reference: QUESTION 96** 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 Processing salary payments once a month is an example of a 0 0 batch workload. A wind turbine that sends 50 sensor readings per second is 0 0 an example of a streaming workload. A home electricity meter that sends readings once a day to 0 0 an energy provider is an example of a streaming workload. **Correct Answer: Answer Area** Statements Yes No Processing salary payments once a month is an example of a 0 batch workload. A wind turbine that sends 50 sensor readings per second is 0 an example of a streaming workload. A home electricity meter that sends readings once a day to 0 0 an energy provider is an example of a streaming workload. Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

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QUESTION 97 You need to gather real-time telemetry data from a mobile application.

Which type of workload describes this scenario?

A. Online Transaction Processing (OLTP)

B. batch

C. massively parallel processing (MPP)

D. streaming

Correct Answer: D

Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Reference: https://docs.microsoft.com/en-in/azure/azure-monitor/overview

QUESTION 98 You have a SQL pool in Azure Synapse Analytics that is only used actively every night for eight hours.

You need to minimize the cost of the SQL pool during idle times. The solution must ensure that the data remains intact.

What should you do on the SQL pool?

A. Scale down the data warehouse units (DWUs).

B. Pause the pool.

C. Create a user-defined restore point.

D. Delete the pool

Correct Answer: B

Section: Describe an analytics workload on Azure Explanation

VCEûp

Explanation/Reference:

Reference: https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-manage-compute-overview

QUESTION 99

Which Azure Data Factory component initiates the execution of a pipeline?

A. a control flow

B. a trigger

C. a parameter

D. an activity

Correct Answer: B

Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Reference:

 $\underline{https://docs.microsoft.com/en-us/azure/data-factory/concepts-pipeline-execution-triggers\#trigger-execution}$

QUESTION 100 Your company has a reporting solution that has paginated reports. The reports query a dimensional model in a data warehouse.

Which type of processing does the reporting solution use?

A. stream processing

B. batch processing

C. Online Analytical Processing (OLAP)

D. Online Transaction Processing (OLTP)



Correct Answer: C

Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Reference:

https://datawarehouseinfo.com/how-does-oltp-differ-from-olap-database/

QUESTION 101

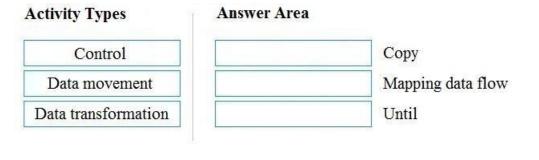
DRAG DROP

Match the types of activities to the appropriate Azure Data Factory activities.

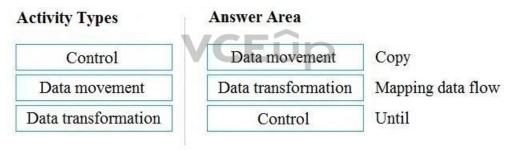
To answer, drag the appropriate activity type from the column on the left to its Data Factory activity on the right. Each activity type may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:



Correct Answer:



Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Reference:

https://docs.microsoft.com/en-us/azure/data-factory/concepts-pipelines-activities#data-transformation-activities

QUESTION 102

What are three characteristics of an Online Transaction Processing (OLTP) workload? Each correct answer presents a complete solution. (Choose three.) NOTE:

Each correct selection is worth one point.

A. denormalized data

B. heavy writes and moderate reads

C. light writes and heavy reads

D. schema on write

E. schema on readF. normalized data

Correct Answer: BDF

Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Explanation:



B: Transactional data tends to be heavy writes, moderate reads.

D: Typical traits of transactional data include: schema on write, strongly enforced F:

Transactional data tends to be highly normalized.

Reference

https://docs.microsoft.com/en-us/azure/architecture/data-guide/relational-data/online-transaction-processing

QUESTION 103

Which two activities can be performed entirely by using the Microsoft Power BI service? Each correct answer presents a complete solution. (Choose two.) NOTE:

Each correct selection is worth one point.

A. report and dashboard creation

B. report sharing and distribution

C. data modeling

D. data acquisition and preparation

Correct Answer: AD

Section: Describe an analytics workload on Azure Explanation

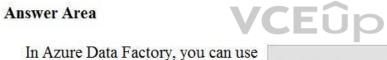
Explanation/Reference:

QUESTION 104

HOTSPOT

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

Hot Area:



In Azure Data Factory, you can use

a control flow
a dataset
a linked service
an integration runtime

to orchestrate pipeline

activities that depend on the output of other pipeline activities.

Correct Answer:

Answer Area

In Azure Data Factory, you can use

a control flow
a dataset
a linked service
an integration runtime

to orchestrate pipeline

activities that depend on the output of other pipeline activities.

Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Reference

https://docs.microsoft.com/en-us/azure/data-factory/frequently-asked-questions



QUESTION 105 You need to develop a solution to provide data to executives. The solution must provide an interactive graphical interface, depict various key performance indicators, and support data exploration by using drill down.

What should you use in Microsoft Power BI?

A. a dashboard

B. a report

C. a dataflow

D. Microsoft Power Apps

Correct Answer: B

Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Reference: https://docs.microsoft.com/en-us/power-bi/consumer/end-user-

dashboards https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-

kpi https://docs.microsoft.com/en-us/power-bi/consumer/end-user-drill

QUESTION 106

Which two Azure services can be used to provision Apache Spark clusters? Each correct answer presents a complete solution. (Choose two.)

NOTE: Each correct selection is worth one point.

A. Azure Time Series Insights

B. Azure HDInsight

C. Azure Databricks

D. Azure Log Analytics

Correct Answer: BC

Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Reference: https://www.sqlshack.com/a-beginners-guide-to-azure-

databricks/

QUESTION 107 You have a quality assurance application that reads data from a

data warehouse.

Which type of processing does the application use?

A. Online Transaction Processing (OLTP)

B. batch processing

C. Online Analytical Processing (OLAP)

D. stream processing

Correct Answer: A

Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Reference: https://docs.microsoft.com/en-us/azure/architecture/data-guide/relational-data/online-transaction-processing

QUESTION 108 Which three objects can be added to a Microsoft Power BI dashboard? Each correct answer presents a complete solution.

(Choose three.)

NOTE: Each correct selection is worth one point.

A. a report page

B. a Microsoft PowerPoint slide





D. a dataflow E. a text box				
Correct Answer: ACE Section: Describe an analytics workload on Azure Explanation				
Explanation/Reference: Reference: https://docs.microsoft.com/en-us/power-bi/consumer/end-user-dashb https://docs.microsoft.com/en-us/power-bi/create-reports/service-dashboard-add-				
QUESTION 109	<u>-wiaget</u>			
HOTSPOT				
For each of the following statements, select Yes if the statement is true. Otherwise	se, select No.			
NOTE: Each correct selection is worth one point.				
Hot Area:	A section design and the section of			
	Answer Area			
	Statements	Yes	No	
	A Microsoft Power BI dashboard is associated with a single workspace.	0	0	
	A Microsoft Power BI dashboard can only display visualizations from a single dataset.	0	0	
	A Microsoft Power BI dashboard can display visualizations from a Microsoft Excel workbook.	0	0	
Correct Answer:				
	Answer Area			
	Statements	Yes	No	
	A Microsoft Power BI dashboard is associated with a single workspace.	0	0	
	A Microsoft Power BI dashboard can only display visualizations from a single dataset.	0	0	
	A Microsoft Power BI dashboard can display visualizations from a Microsoft Excel workbook.	0	0	
Section: Describe an analytics workload on Azure Explanation				
Explanation/Reference: Reference: https://docs.microsoft.com/en-us/power-bi/connect-data/service-datas	sets-across-workspaces			
https://docs.microsoft.com/en-us/power-bi/consumer/end-user-dashboardshttps://powerbi.microsoft.com/en-us/excel-and-power-bi/				
QUESTION 110 Which Azure Data Factory component provides the compute environment for activities?				

C. a visualization from a report

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A. a linked service

B. an integration runtime

C. a control flow

D. a pipeline

Correct Answer: B

Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Explanation:

The Integration Runtime (IR) is the compute infrastructure used by Azure Data Factory to provide the following data integration capabilities across different network environments: - Data Flow

- Data movement
- Activity dispatch
- SSIS package execution

Reference:

https://docs.microsoft.com/en-us/azure/data-factory/concepts-integration-runtime

QUESTION 111

HOTSPOT

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

Hot Area:

Correct Answer:

Section: Describe an analytics workload on Azure Explanation



Explanation/Reference:

Explanation:

Paginated Reports in Power BI now allows users to generate these fixed-layout documents optimized for printing and archiving, such as PDF and Word files.

These document-style reports with visualizations that provide additional control, like which tables expand horizontally and vertically to display all their data and continue from page to page as needed.

Reference:

https://powerbi.microsoft.com/en-us/blog/announcing-paginated-reports-in-power-bi-general-availability/

QUESTION 112 What are two uses of data visualization? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Represent trends and patterns over time
- B. Implement machine learning to predict future values
- C. Communicate the significance of data
- D. Consistently implement business logic across reports

Correct Answer: AC

Section: Describe an analytics workload on Azure Explanation

Explanation/Reference:

Explanation:

Data visualization is a key component in being able to gain insight into your data. It helps make big and small data easier for humans to understand. It also makes it easier to detect patterns, trends, and outliers in groups of data. Data visualization brings data to help you find key business insights quickly and effectively.

Reference: https://docs.microsoft.com/en-us/azure/synapse-analytics/spark/apache-spark-data-visualization