

# Microsoft

## Exam Questions DP-900

Microsoft Azure Data Fundamentals



#### NEW QUESTION 1

Which Azure SQL offering supports automatic database scaling and automatic pausing of the database during inactive periods?

- A. Azure SQL Database Hyperscale
- B. Azure SQL managed instance
- C. Azure SQL Database serveless
- D. Azure SQL Database elastic pod

**Answer:** B

#### NEW QUESTION 2

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

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

**Answer:** A

#### Explanation:

Power BI Report Builder is the standalone tool for authoring paginated reports for the Power BI service. <https://docs.microsoft.com/en-us/power-bi/paginated-reports/paginated-reports-quickstart-aw>

#### NEW QUESTION 3

You plan to deploy a PostgreSQL database to Azure.

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

NOTE: Each correct selection is worth one point.

PostgreSQL on Azure VMs:

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

Azure Database for PostgreSQL:

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

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Graphical user interface, text, application, chat or text message Description automatically generated

#### NEW QUESTION 4

A bar chart showing year-to date sales by region is an example of which type of analytics?

- A. descriptive
- B. diagnostic
- C. predictive
- D. prescriptive

**Answer:** B

#### NEW QUESTION 5

Select the answer that correctly completes the sentence.

- A. Mastered
- B. Not Mastered

**Answer:** A


#### Explanation:

Answer Area

In batch processing, delay in delivering data processing results is acceptable.

NEW QUESTION 6

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

In Azure Data Factory, you can use  to orchestrate pipeline

- a control flow
- a dataset
- a linked service
- an integration runtime

activities that depend on the output of other pipeline activities.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

In Azure Data Factory, you can use  to orchestrate pipeline

- a control flow
- a dataset
- a linked service
- an integration runtime

activities that depend on the output of other pipeline activities.

NEW QUESTION 7

Select the answer that correctly completes the sentence.

Answer Area

Backing up and restoring data are the responsibilities of a

- data engineer.
- data analyst.
- data engineer.
- data scientist.
- database administrator.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Backing up and restoring data are the responsibilities of a

- data engineer.
- data analyst.
- data engineer.
- data scientist.
- database administrator.

NEW QUESTION 8

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

Answer Area

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



- A. Mastered  
B. Not Mastered

**Answer:** A

**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?

**NEW QUESTION 9**

Which three actions are used when performing diagnostic analytics?

- A. • Identify data anomalies• Collect anomaly-related data• Discover relationships and trends that explain anomalies.  
B. • Identify data anomalies• Predict when anomalies are likely to recur• Use analytical tools such as decision trees and regression.  
C. • Apply self-learning loops to draw inferences from anomalies.• Predict when anomalies are likely to recur• Use analytical tools such as decision trees and regression.  
D. • Identify data anomalies• Use machine learning to find patterns in large datasets.• Discover relationships and trends that explain anomalies.

**Answer:** A

**NEW QUESTION 10**

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

- A. INSERT  
B. DISABLE  
C. ALTER  
D. DROP

**Answer:** A

**Explanation:**

Data Manipulation Language (DML) statements:

- > DELETE
- > INSERT
- > UPDATE

**NEW QUESTION 10**

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

Relational data is stored in

a file system as unstructured data.  
a hierarchal folder structure.  
a tabular form of rows and columns.  
comma-separated value (CSV) files.

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application Description automatically generated

**NEW QUESTION 13**

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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.

NEW QUESTION 15

You need to store event log data that is semi-structured and received as the logs occur. What should you use?

- A. Azure Table storage
- B. Azure Queue storage
- C. Azure Files

Answer: B

NEW QUESTION 16

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
Azure Table storage supports multiple read replicas.	<div><input type="radio"/></div>	<div><input type="radio"/></div>
Azure Table storage supports multiple write regions.	<div><input type="radio"/></div>	<div><input type="radio"/></div>
The Azure Cosmos DB Table API supports multiple read replicas.	<div><input type="radio"/></div>	<div><input type="radio"/></div>
The Azure Cosmos DB Table API supports multiple write regions.	<div><input type="radio"/></div>	<div><input type="radio"/></div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



Statements	Yes	No
Azure Table storage supports multiple read replicas.	<input checked="" type="radio"/>	<input type="radio"/>
Azure Table storage supports multiple write regions.	<input type="radio"/>	<input checked="" type="radio"/>
The Azure Cosmos DB Table API supports multiple read replicas.	<input checked="" type="radio"/>	<input type="radio"/>
The Azure Cosmos DB Table API supports multiple write regions.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 21

Match the types of analytics that can be used to answer the business questions.  
To answer, drag the appropriate analytics type from the column on the left to its question on the right. Each analytics type may be used once, more than once, or not at all.  
NOTE: Each correct match is worth one point.

Cognitive

Diagnostic

Descriptive

Predictive

Prescriptive

Why did sales increase last month?

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

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

- A. Mastered
- B. Not Mastered

Answer: A

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 patterns, and determine relationships.  
Box 2: Prescriptive  
Prescriptive analytics is a combination of data, mathematical models, and various business rules to infer actions to influence future desired outcomes.  
Box 3: Cognitive

NEW QUESTION 25

Select the answer that correctly completes the sentence.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

An elastic pool

enables multiple Azure SQL databases to share resources such as memory, data storage space, and processing power.

NEW QUESTION 28

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

Descriptive analytics tells you

what is most likely to occur in the future.

what occurred in the past.

which actions you can perform to affect outcomes.

why something occurred in the past.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Descriptive analytics tells you

what is most likely to occur in the future.

what occurred in the past.

which actions you can perform to affect outcomes.

why something occurred in the past.

**NEW QUESTION 32**  
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
Batch processing can output data to a file store	<input type="radio"/>	<input type="radio"/>
Batch processing can output data to a relational database	<input type="radio"/>	<input type="radio"/>
Batch processing can output data to a NoSQL database	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

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

**NEW QUESTION 34**  
Select the answer that correctly completes the sentence.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

**NEW QUESTION 36**

Select the answer that correctly completes the sentence.

**Answer Area**

A relational database is appropriate for scenarios that involve a high volume of

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

A relational database is appropriate for scenarios that involve a high volume of

**NEW QUESTION 38**

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. key/value
- B. document
- C. graph
- D. columnar

**Answer:** A

**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.

**NEW QUESTION 39**

Which property of a transactional workload guarantees that each transaction is treated as a single unit that either succeeds completely or fails completely?

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

**Answer:** D

**NEW QUESTION 44**

Which Azure storage solution provides native support for POSIX-compliant access control lists (ACLs)?

- A. Azure Queue storage
- B. Azure Data Lake Storage
- C. Azure table storage
- D. Azure Files

**Answer:** B

**NEW QUESTION 45**

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

By default, each Azure SQL database is protected by 

<input type="text"/>	▼
a network security group (NSG).	
a server-level firewall.	
Azure Firewall.	
Azure Front Door.	

- A. Mastered
- B. Not Mastered

**Answer:** A



**Explanation:**

Text Description automatically generated with medium confidence

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

**NEW QUESTION 47**

To complete the sentence, select the appropriate option in the 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).	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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).	

**NEW QUESTION 51**

Select the answer that correctly completes the sentence.

**Answer Area**

Microsoft Power BI Desktop	▼
Microsoft Power BI Desktop	
The Microsoft Power BI service	
The Microsoft Power BI phone app	

provides a full range of Power BI data modeling and report editing features.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

Microsoft Power BI Desktop	▼
Microsoft Power BI Desktop	
The Microsoft Power BI service	
The Microsoft Power BI phone app	

provides a full range of Power BI data modeling and report editing features.

**NEW QUESTION 56**

What is a primary characteristic of a relational database?

- A. data is queried and manipulated by using a variant of the SQL language
- B. a flexible data structure
- C. a lack of dependencies between tables
- D. a large amount of duplicate data

**Answer:** A

NEW QUESTION 59

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

- A. denormalized data
- B. schema defined in a database
- C. schema defined when reading unstructured data from a database
- D. normalized data
- E. light writes and heavy reads
- F. heavy writes and moderate reads

Answer: ABF

NEW QUESTION 60

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

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

▼

graph.

table.

partition key.

document.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

▼

graph.

table.

partition key.

document.

NEW QUESTION 64

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

▼

A heap

A stored procedure

A view

An index

presents content defined by a query.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

A View

NEW QUESTION 69

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).

Answer: A

Explanation:

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

NEW QUESTION 71

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

Answer: B

NEW QUESTION 76

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

Answer: C

NEW QUESTION 80

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

Answer Area

Statements	Yes	No
Azure Data Studio can be used to query an Azure SQL database from a device that runs macOS.	<input type="radio"/>	<input type="radio"/>
Microsoft SQL Server Management Studio (SSMS) enables users to create and use SQL notebooks.	<input type="radio"/>	<input type="radio"/>
Azure Data Studio can be used to restore a database.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
Azure Data Studio can be used to query an Azure SQL database from a device that runs macOS.	<input type="radio"/>	<input checked="" type="radio"/>
Microsoft SQL Server Management Studio (SSMS) enables users to create and use SQL notebooks.	<input type="radio"/>	<input checked="" type="radio"/>
Azure Data Studio can be used to restore a database.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 82

You need to develop a solution to provide data to executives. the solution must provide an interactive graphic interface, depict various key performance indications, and support data exploration by using drill down.

What should you use in Microsoft Power BI?

- A. a dashboard
- B. Microsoft Power Apps
- C. a dataflow
- D. a report

Answer: D

NEW QUESTION 87

Select the answer that correctly completes the sentence.

- A. Mastered

B. Not Mastered

Answer: A

Explanation:

Answer Area

Backing up and restoring data are the responsibilities of a database administrator.

NEW QUESTION 92

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

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

Answer: A

NEW QUESTION 95

Select the answer that correctly completes the sentence.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

In a data warehousing workload, data from multiple sources is combined in a single location.

NEW QUESTION 96

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

Answer: BC

NEW QUESTION 98

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

To configure an Azure Storage account to support access control lists that have object-level permissions,

enable the hierarchical namespace.

set Account kind to BlobStorage.

set Performance to Premium.

set Replication to Read-access geo-redundant storage (RA-GRS).

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Table Description automatically generated

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



**NEW QUESTION 103**

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

**Answer:** D

**NEW QUESTION 106**

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 can copy a dashboard between Microsoft Power BI workspaces.	<input type="radio"/>	<input type="radio"/>
A Microsoft Power BI dashboard can only display visualizations from a single dataset.	<input type="radio"/>	<input type="radio"/>
A Microsoft Power BY dashboard can display visualizations from a Microsoft Excel workbook.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application Description automatically generated

Box 1: No

You can duplicate a dashboard. The duplicate ends up in the same Power BI workspace.

There is no current functionality that allows you to move reports from one workspace to another.

Box 2: No

Box 3: Yes

**NEW QUESTION 109**

Select the answer that correctly completes the sentence.

Answer Area

A data engineer

A data analyst

A data engineer

A data scientist

A database administrator

is responsible for creating visuals and charts that help a company make informed decisions.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

A data engineer

A data analyst

A data engineer

A data scientist

A database administrator

is responsible for creating visuals and charts that help a company make informed decisions.

**NEW QUESTION 111**

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

Answer: AD

NEW QUESTION 113

You need to recommend a data store service that meets the following requirements:

- > Native SQL API access
  - > Configurable indexes
- What should you recommend?

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

Answer: D

Explanation:

Azure Cosmos DB comes with native Core (SQL) API support.  
In Azure Cosmos DB, data is indexed following indexing policies that are defined for each container. The default indexing policy for newly created containers enforces range indexes for any string or number. This policy can be overridden with your own custom indexing policy.

NEW QUESTION 116

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

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

Answer: B

NEW QUESTION 119

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.

Components

Dataset

Linked service

Mapping data flow

Pipeline

Answer Area

ComponentA representation of data structures within data stores

ComponentThe information used to connect to external resources

ComponentA logical grouping of activities that performs a unit of work and can be scheduled

- A. Mastered
- B. Not Mastered

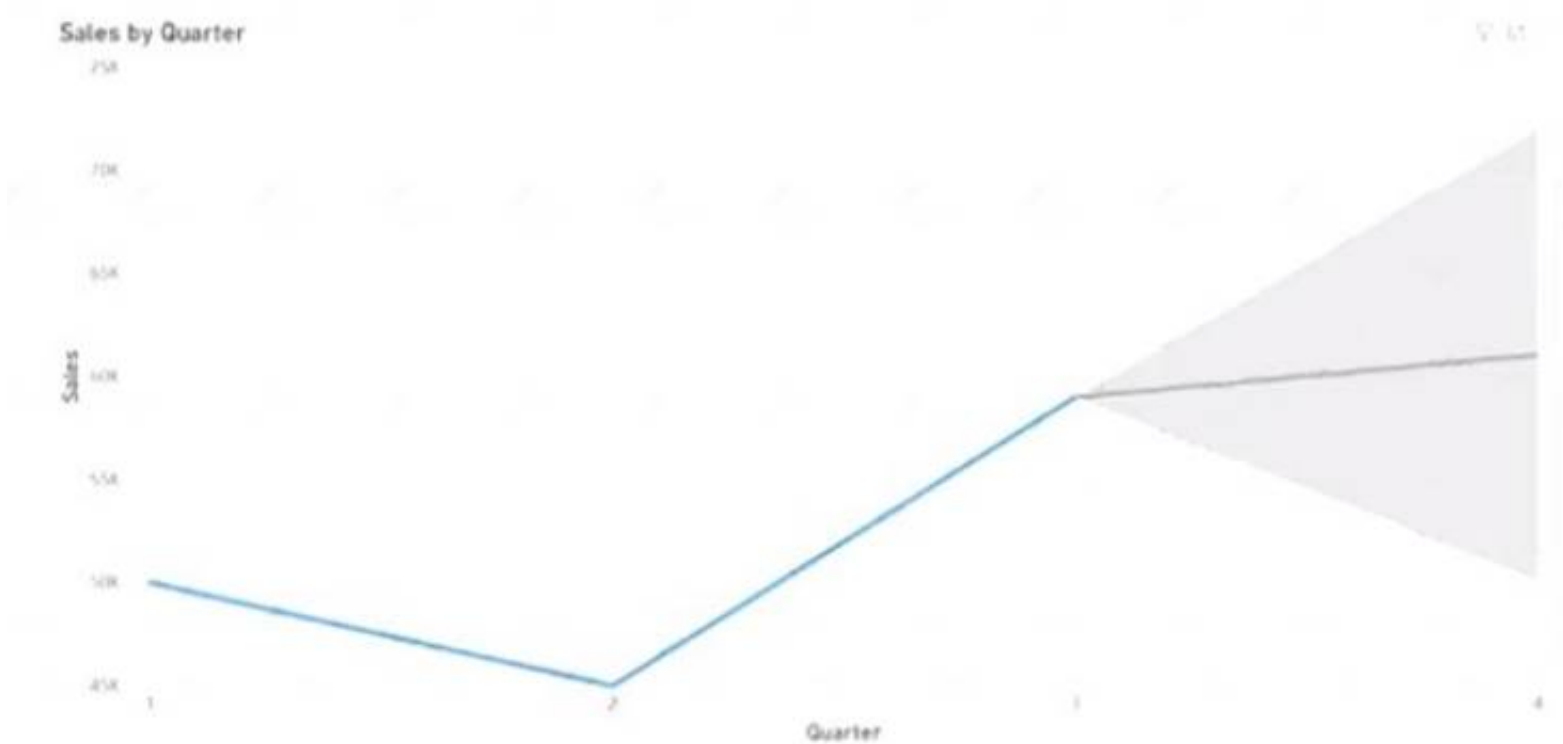
Answer: A

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.

NEW QUESTION 121

Your company recently reported sales from the third quarter. You have the chart shown in the following exhibit.



Which type of analysis is shown for the fourth quarter?

- A. predictive
- B. prescription
- C. descriptive
- D. diagnostic

Answer: A

NEW QUESTION 122

Select the answer that correctly completes the sentence.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

You can query a graph database in Azure Cosmos DB as nodes and edges by using the Gremlin language.

NEW QUESTION 126

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

- A. SELECT
- B. JOIN
- C. MERGE
- D. CREATE

Answer: D

NEW QUESTION 131

Select the answer that correctly completes the sentence.

Answer Area

A relational database must be used when strong consistency quarantees are required.

- A. Mastered

B. Not Mastered

Answer: A

Explanation:

Answer Area

A relational database must be used when

strong consistency guarantees are required.

a dynamic schema is required.

data will be stored as key/value pairs.

storing large images and videos.

strong consistency guarantees are required.

NEW QUESTION 132

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

Answer Area

Statements	Yes	No
A pipeline is a representation of a data structure within Azure Data Factory.	<input type="radio"/>	<input type="radio"/>
Azure Data Factory pipelines can execute other pipelines.	<input type="radio"/>	<input type="radio"/>
A processing step within an Azure Data Factory pipeline is an activity.	<input type="radio"/>	<input type="radio"/>

A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
A pipeline is a representation of a data structure within Azure Data Factory.	<input type="radio"/>	<input checked="" type="radio"/>
Azure Data Factory pipelines can execute other pipelines.	<input checked="" type="radio"/>	<input type="radio"/>
A processing step within an Azure Data Factory pipeline is an activity.	<input type="radio"/>	<input checked="" type="radio"/>

NEW QUESTION 137

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

Answer Area

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

A. Mastered  
B. Not Mastered

Answer: A

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

#### NEW QUESTION 138

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.	<input type="radio"/>	<input type="radio"/>
You need a Microsoft 365 subscription to create an Azure SQL database.	<input type="radio"/>	<input type="radio"/>
You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases.	<input type="radio"/>	<input type="radio"/>

A. Mastered

B. Not Mastered

**Answer: A**

**Explanation:**

Statements	Yes	No
You must apply patches to Azure SQL databases regularly.	<input type="radio"/>	<input checked="" type="radio"/>
You need a Microsoft 365 subscription to create an Azure SQL database.	<input type="radio"/>	<input checked="" type="radio"/>
You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases.	<input checked="" type="radio"/>	<input type="radio"/>

#### NEW QUESTION 143

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
A Microsoft Power BI dashboard is associated with a single workspace.	<input type="radio"/>	<input type="radio"/>
A Microsoft Power BI dashboard can only display visualizations from a single dataset.	<input type="radio"/>	<input type="radio"/>
A Microsoft Power BI dashboard can display visualizations from a Microsoft Excel workbook.	<input type="radio"/>	<input type="radio"/>

A. Mastered

B. Not Mastered

**Answer: A**

**Explanation:**

Statements	Yes	No
A Microsoft Power BI dashboard is associated with a single workspace.	<input type="radio"/>	<input checked="" type="radio"/>
A Microsoft Power BI dashboard can only display visualizations from a single dataset.	<input type="radio"/>	<input checked="" type="radio"/>
A Microsoft Power BI dashboard can display visualizations from a Microsoft Excel workbook.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 147

Select the answer that correctly completes the sentence.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

A relational database must be used when strong consistency guarantees are required.

NEW QUESTION 151

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.

Terms

Azure Storage account

File share

File system

Answer Area

Level

Level

Azure Resource Group

Azure Storage account

File share

Folders

Files

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

NEW QUESTION 152

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

An extract, load, and transform (ELT) process requires

- a separate transformation engine.
- a target data store powerful enough to transform data.
- data that is fully processed before being loaded to the target data store.
- a data pipeline that includes a transformation engine.

- A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**

Text Description automatically generated with medium confidence

With ELT, the data store used to perform the transformation is the same data store where the data is ultimately consumed.

**NEW QUESTION 156**

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.

**Answer:** BCE

**Explanation:**

<https://docs.microsoft.com/en-us/sql/relational-databases/security/authentication-access/getting-started-with-data>

**NEW QUESTION 157**

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

- A. multi-master replication
- B. Availability Zones
- C. automatic failover
- D. the strong consistency level

**Answer:** B

**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.

**NEW QUESTION 162**

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

**Answer:** A

**NEW QUESTION 164**

Which clause should you use in a select statement to combine rows in one table with rows in another table?

- A. JOIN
- B. VALUES
- C. set
- D. KEY

**Answer:** A

**NEW QUESTION 168**

Select the answer that correctly completes the sentence.

**Answer Area**

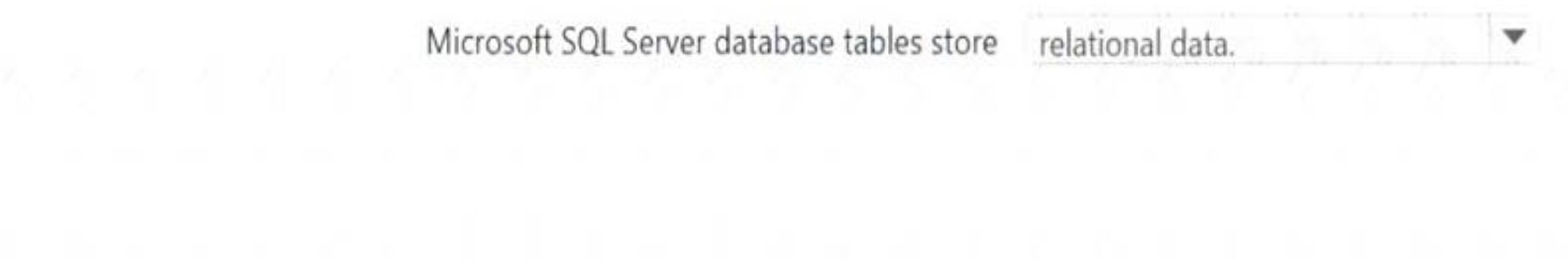
Microsoft SQL Server database tables store

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area



NEW QUESTION 169

What should you use to automatically delete blobs from Azure Blob Storage?

- A. soft delete
- B. archive storage
- C. the change feed
- D. a lifecycle management policy

Answer: D

NEW QUESTION 170

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.	<input type="radio"/>	<input type="radio"/>
Platform as a service (PaaS) database offerings in Azure provide configurable scaling options.	<input type="radio"/>	<input type="radio"/>
Platform as a service (PaaS) database offerings in Azure reduce the administrative overhead for managing hardware.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 171

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

Answer: C

**NEW QUESTION 173**

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.

**Activity Types**

Control

Data movement

Data transformation

**Answer Area**

Copy

Mapping data flow

Until

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

**Activity Types**

Control

Data movement

Data transformation

**Answer Area**

Data movementCopy

Data transformationMapping data flow

ControlUntil

**NEW QUESTION 177**

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

**Answer Area**

Statements

You must apply operating system updates to Azure SQL databases regularly.

You need a Microsoft 365 subscription to create an Azure SQL database.

You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases.

Yes

No

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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## Answer Area

Statements	Yes	No
You must apply operating system updates to Azure SQL databases regularly.	<input type="radio"/>	<input checked="" type="radio"/>
You need a Microsoft 365 subscription to create an Azure SQL database.	<input type="radio"/>	<input checked="" type="radio"/>
You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases.	<input checked="" type="radio"/>	<input type="radio"/>

### NEW QUESTION 182

You have data saved in the following format.

```
\
{
  "firstName": "John",
  "lastName": "Doe",
  "age": "23",
  "hobbies": [
    { "type": "Sports", "value": "Golf" },
    { "type": "Leisure", "value": "Reading" },
    { "type": "Leisure", "value": "Guitar" }
  ]
}
```

Which format was used?

- A. XML
- B. yaml
- C. JSON
- D. HTML

**Answer: D**

### NEW QUESTION 187

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

- A. sqlcmd
- B. bcp
- C. azdata
- D. Azure CLI

**Answer: A**

### NEW QUESTION 192

Your company needs to design a database that illustrates the relationships between utilization levels of individual network devices across a local area network. Which type of data store should you use?

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

**Answer: A**

#### 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.

### NEW QUESTION 193

You need to create an Azure resource to store data in Azure Table storage. Which command should you run?

- A. az scorage share create
- B. az scorage account creace
- C. az cosmosdb creace
- D. az scorage concainer creace

**Answer: D**

#### NEW QUESTION 198

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
Azure Data Studio can be used to query an Azure SQL database from a device that runs macOS.	<input type="radio"/>	<input type="radio"/>
Microsoft SQL Server Management Studio (SSMS) enables users to create and use SQL notebooks.	<input type="radio"/>	<input type="radio"/>
Azure Data Studio can be used to restore a database.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

#### 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.

#### NEW QUESTION 202

What is a characteristic of non-relational data?

- A. a well-defined schema
- B. no indexes
- C. self-describing entities
- D. no unique key values

**Answer:** D

#### NEW QUESTION 203

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

**Answer:** A

#### 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.

#### NEW QUESTION 207

At which level in Azure Cosmos DB can you configure multiple write regions and read regions?

- A. database
- B. partition
- C. collection
- D. account

**Answer:** C

#### NEW QUESTION 210

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

Answer Area

A Microsoft Power BI dashboard enables users to create highly formatted, fixed-layout documents or interactive report archiving. paginated report subscription

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Paginated Reports

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

NEW QUESTION 213

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.

Workload Types

Batch Streaming

Answer Area

Workload Type Analyzing web traffic from the past year  
Workload Type Classifying images that were uploaded last month  
Workload Type Tracking how many people are currently using a website

- A. Mastered
- B. Not Mastered

Answer: A

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. Box 3: Batch

NEW QUESTION 214

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

Answer Area

Relational data uses collections columns keys partitions to enforce relationships between different tables.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Relational data uses collections columns keys partitions to enforce relationships between different tables.

NEW QUESTION 215

Select the answer that correctly completes the sentence.



Answer Area

A JSON document is an example of

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

A JSON document is an example of

NEW QUESTION 219

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 read
- F. normalized data

Answer: BDF

NEW QUESTION 222

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

Answer Area

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

NEW QUESTION 225

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

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

**Answer:** A

#### NEW QUESTION 229

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
Azure Databricks can consume data from Azure SQL Database	<input type="radio"/>	<input type="radio"/>
Azure Databricks can consume data from Azure Event Hubs	<input type="radio"/>	<input type="radio"/>
Azure Databricks can consume data from Azure Cosmos DB	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

#### 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.

#### NEW QUESTION 234

Which type of database is Azure Database for PostgreSQL?

- A. Platform as a service (PaaS)
- B. Infrastructure as a service (IaaS)
- C. Microsoft SQL Server
- D. on-premises

**Answer:** A

#### NEW QUESTION 236

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

NOTE: Each correct selection is worth one point.

- A. Azure Databricks
- B. Azure Log Analytics
- C. Azure Time Series Insights
- D. Azure HDInsight

**Answer:** AD

#### NEW QUESTION 238

Select the answer that correctly completes the sentence.

**Answer Area**

A clustered index

A view

A clustered index

A stored procedure

A nonclustered index

physically sorts the data in a table based on the values in a specified column.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

A clustered index

A view

A clustered index

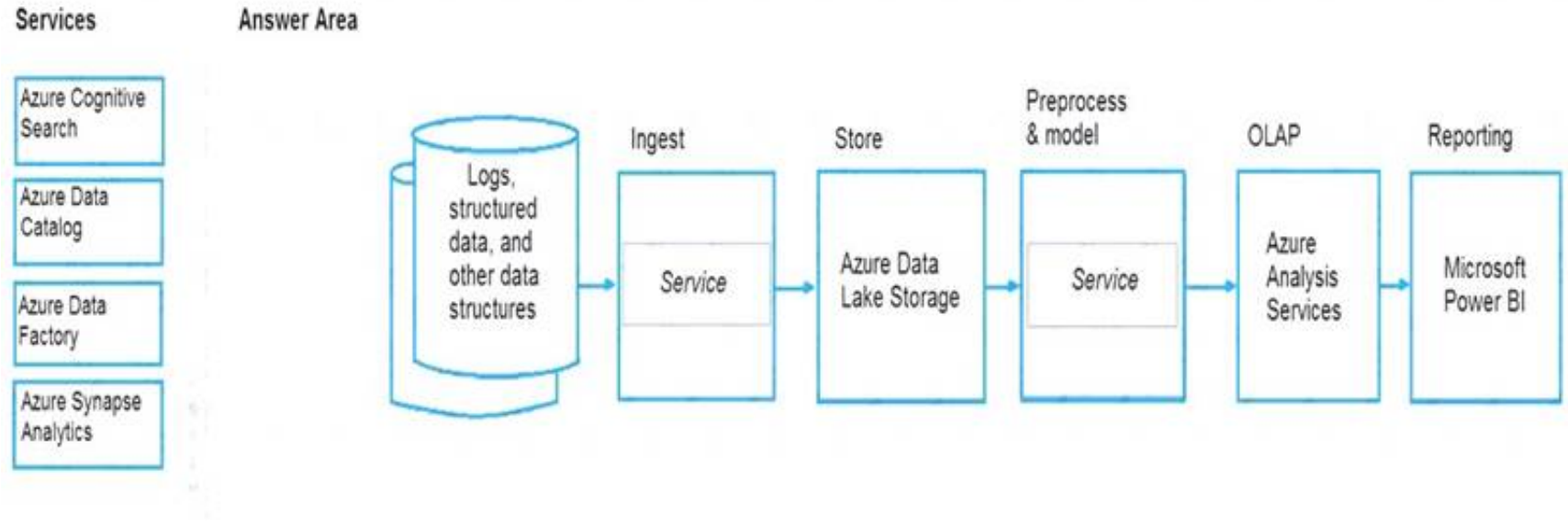
A stored procedure

A nonclustered index

physically sorts the data in a table based on the values in a specified column.

**NEW QUESTION 239**

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.



- A. Mastered
- B. Not Mastered

**Answer:** A

**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.

**NEW QUESTION 240**

Your company needs to design a database that shows how changes traffic in one area of a network affect other components on the network.  
Which type of data store should you use?

- A. Key/value
- B. Graph
- C. Document
- D. columnar

**Answer:** B

**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.

**NEW QUESTION 242**

Select the answer that correctly completes the sentence.

**Answer Area**

Online analytical processing (OLAP) systems are particularly suitable for analytical workloads because data is

optimized for transactions.

limited in size.

optimized for transactions.

pre-aggregated.

read-only.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

Online analytical processing (OLAP) systems are particularly suitable for analytical workloads because data is

optimized for transactions.

limited in size.

optimized for transactions.

pre-aggregated.

read-only.

**NEW QUESTION 244**

Which three actions are used when performing diagnostic analytics?

- A. • Identify data anomalies• Collect anomaly-related data• Discover relationships and trends that explain anomalies.
- B. • Identify data anomalies• Predict when anomalies are likely to recur• Use analytical tools such as decision trees and regression.
- C. • Apply self-learning loops to draw inferences from anomalies.• Predict when anomalies are likely to recur• Use analytical tools such as decision trees and regression.
- D. • Identify data anomalies• Use machine learning to find patterns in large datasets.• Discover relationships and trends that explain anomalies.

**Answer:** A

**NEW QUESTION 246**

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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.



**NEW QUESTION 251**

Select the answer that correctly completes the sentence.

**Answer Area**

An extract, transform, and load (ETL) process requires

- data that is fully processed before being loaded to the target data store.
- a matching schema in the data source and the data target.
- a target data store powerful enough to transform data.
- data that is fully processed before being loaded to the target data store.
- that the data target be a relational database.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

An extract, transform, and load (ETL) process requires

- data that is fully processed before being loaded to the target data store.
- a matching schema in the data source and the data target.
- a target data store powerful enough to transform data.
- data that is fully processed before being loaded to the target data store.
- that the data target be a relational database.

**NEW QUESTION 252**

Select the answer that correctly completes the sentence.

**Answer Area**

The \_\_\_\_\_ clause can be used in Data Manipulation Language (DML) statements to specify the criteria that rows must match.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

The **WHERE** clause can be used in Data Manipulation Language (DML) statements to specify the criteria that rows must match.

**NEW QUESTION 254**

Select the answer that correctly completes the sentence.

Answer Area

An Azure Storage account must have 

Blob soft delete

Hierarchical namespace

Large file shares

Versioning

 enabled to support Azure Data Lake Storage.

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**  
Hierarchical namespace  
<https://learn.microsoft.com/en-us/dynamics365/customer-insights/own-data-lake-storage>

**NEW QUESTION 255**  
Select the answer that correctly completes the sentence.

Answer Area

A view

A heap

A stored procedure

A view

An index

 presents content defined by a query.

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Answer Area

A view

A heap

A stored procedure

A view

An index

 presents content defined by a query.

**NEW QUESTION 257**  
Select the answer that correctly completes the sentence.

A 

line chart

matrix

scatter

treemap

 is a chart of colored rectangles. The size of the rectangles represent

the relative value of each item. The chart can be hierarchical, displaying data as a set of rectangles nested within the main rectangle.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application, email Description automatically generated

A treemap chart divides the chart area into rectangles that represent the different levels and relative sizes of the data hierarchy.

**NEW QUESTION 260**

Select the answer that correctly completes the sentence.

**Answer Area**

Relational data is stored in

a tabular form of rows and columns.	▼
a file system as unstructured data.	
a hierarchal folder structure.	
a tabular form of rows and columns.	
comma-separated value (CSV) files.	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

Relational data is stored in

a tabular form of rows and columns.	▼
a file system as unstructured data.	
a hierarchal folder structure.	
a tabular form of rows and columns.	
comma-separated value (CSV) files.	

**NEW QUESTION 265**

Your company is designing a data store tor 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. columnar
- C. graph
- D. time series

**Answer:** D

**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.

**NEW QUESTION 270**

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

**Answer:** C

**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.

**NEW QUESTION 273**

Which T-SQL statement should be used to instruct a database management system to use an index instead of performing a full table scan?

- A. WHERE
- B. SELECT
- C. JOIN

**Answer:** B

NEW QUESTION 278

A data engineer is responsible for which task?

- A. Design and build analytical models.
- B. Design and implement data stores for analytical workloads.
- C. Explore data to identify trends.
- D. Implement policies, tool
- E. and processes for backup and recovery plans.

Answer: A

NEW QUESTION 283

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.

Terms

Index

View

Table

Answer Area

A database object that holds data

A database object whose content is defined by a query

A database object that helps improve the speed of data retrieval

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Terms

Index

View

Table

Answer Area

Table

View

Index

A database object that holds data

A database object whose content is defined by a query

A database object that helps improve the speed of data retrieval

NEW QUESTION 287

.....



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