



**Microsoft**

**Exam Questions DP-900**

Microsoft Azure Data Fundamentals

**NEW QUESTION 1**

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 2**

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

A visualization that illustrates a university's current student enrollment per department is an example of

	▼
cognitive	
descriptive	
predictive	
prescriptive	

analytics.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Text, table Description automatically generated

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? Company name Description automatically generated



**NEW QUESTION 3**

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

- 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 4**

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

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

Which type of data store should you use?

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

**Answer:** D

**NEW QUESTION 5**

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

**Answer:** C

**NEW QUESTION 6**

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 7**

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

In a data warehousing workload, data

- from a single source is distributed to multiple locations
- from multiple sources is combined in a single location
- is added to a queue for multiple systems to process
- is used to train machine learning models

- A. Mastered
- B. Not Mastered

Answer: A

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

NEW QUESTION 8

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 require less setup and configuration effort than infrastructure as a service (IaaS) database offerings.	<input type="radio"/>	<input type="radio"/>
Platform as a service (PaaS) database offerings in Azure provide administrators with the ability to control and update the operating system version.	<input type="radio"/>	<input type="radio"/>
All platform as a service (PaaS) database offerings in Azure can be paused to reduce costs.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

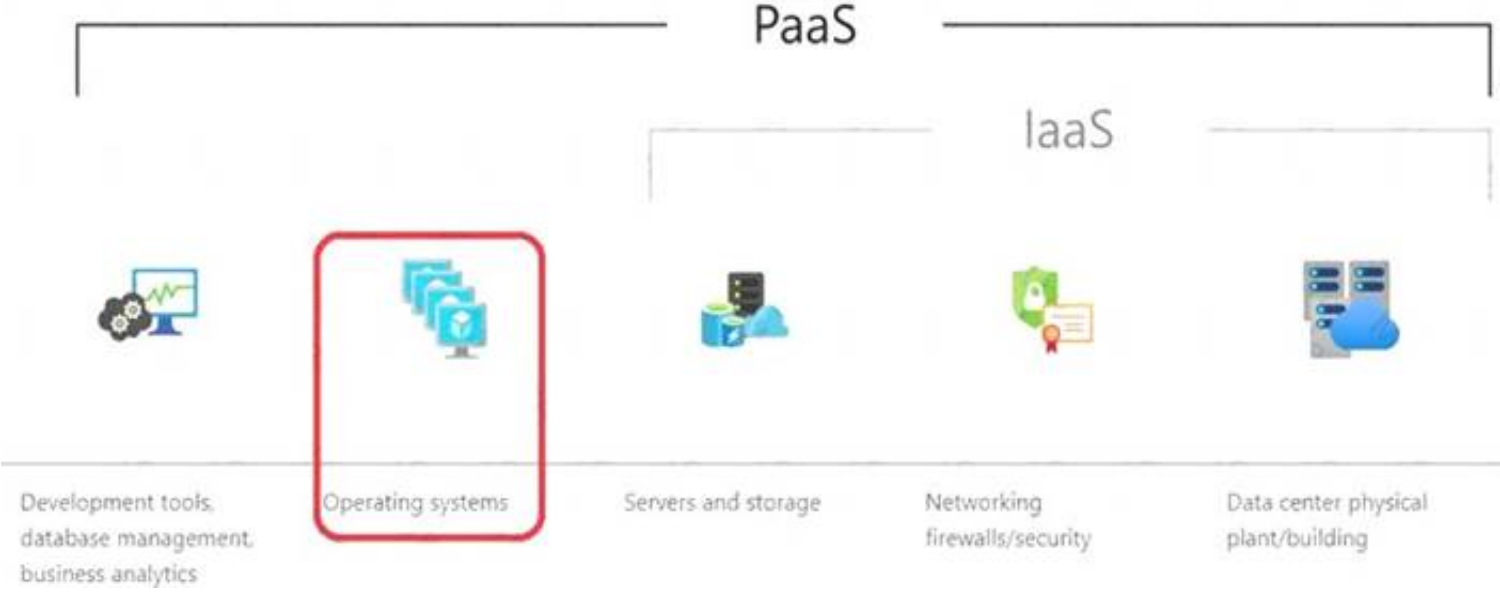
Explanation:

Box 1: Yes

Like IaaS, 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."



#### NEW QUESTION 9

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 10

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 10

Your company needs to ensure that an Azure virtual machine can connect to Azure SQL databases without exposing the databases to the internet. What should you use?

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

**Answer:** C

**Explanation:**

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

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

#### NEW QUESTION 12

Select the answer that correctly completes the sentence.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

##### Answer Area

A non-relational database stores data without a fixed schema

#### NEW QUESTION 16

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.

### APIs

Cassandra API

Gremlin API

MongoDB API

Table API

### Answer Area

Graph data

JSON documents

Key/value data

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

### APIs

Cassandra API

Gremlin API

MongoDB API

Table API

### Answer Area

Graph data

JSON documents

Key/value data

### NEW QUESTION 19

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

- 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 21

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 26

You have a transactional application that stem 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 30

Select the answer that correctly completes the sentence.

- A. Mastered
- B. Not Mastered

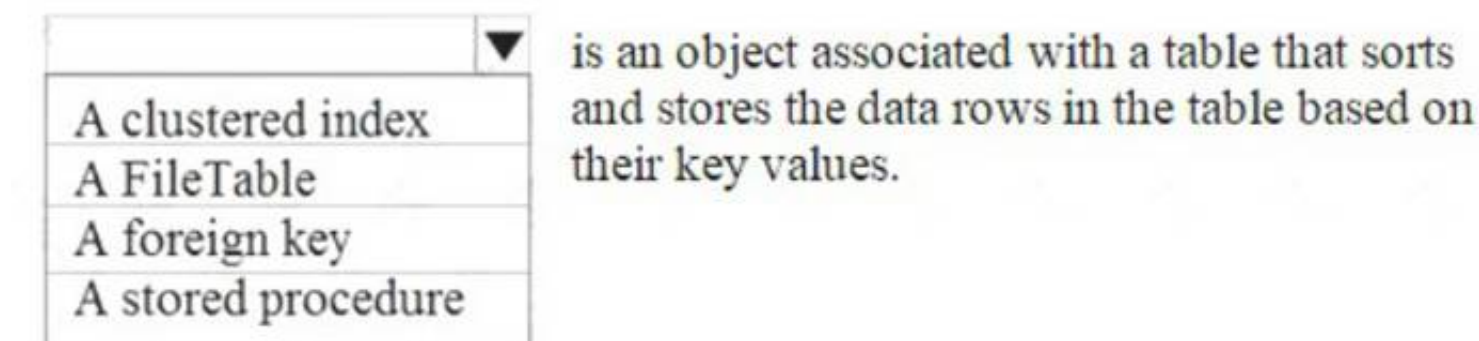
**Answer:** A

#### Explanation:



#### NEW QUESTION 35

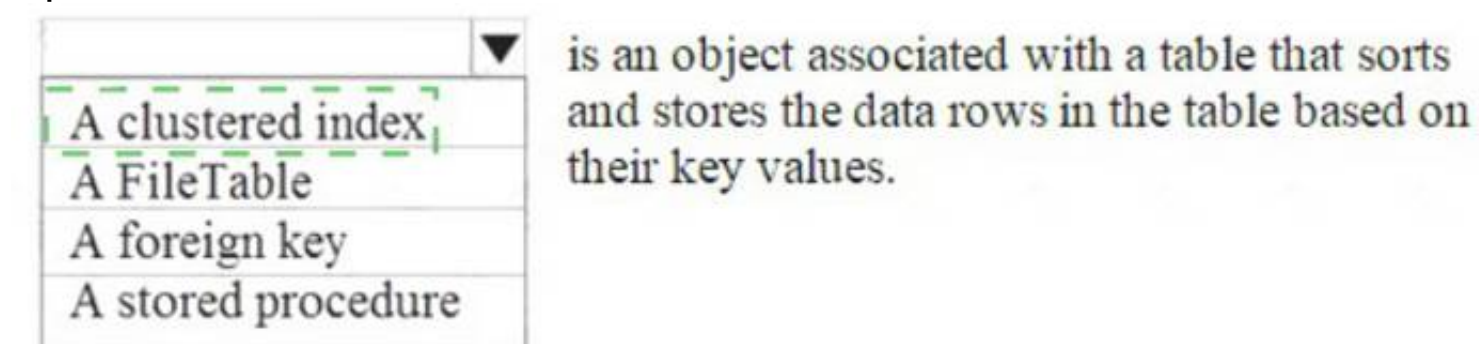
To complete the sentence, select the appropriate option in the answer area.



- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:



#### NEW QUESTION 39

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 40

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 45

Match the Azure SQL services to the appropriate use cases.  
To answer, drag the appropriate service from the column on the left to its use case on the right. Each service may be used once, more than once, or not at all.  
NOTE: Each correct match is worth one point.

Azure SQL services

Azure SQL Database elastic pool

Azure SQL Database single database

Azure SQL Managed Instance

Answer Area

A serverless configuration

A database that has the highest compatibility with on-premises Microsoft SQL Server

A low-cost, low-maintenance database

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Azure SQL services

Azure SQL Database elastic pool

Azure SQL Database single database

Azure SQL Managed Instance

Answer Area

Azure SQL Database single database

Azure SQL Database elastic pool

Azure SQL Managed Instance

A serverless configuration

A database that has the highest compatibility with on-premises Microsoft SQL Server

A low-cost, low-maintenance database

NEW QUESTION 47

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 50

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



Answer Area

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:

Answer Area

Statements	Yes	No
Azure Databricks can consume data from Azure SQL Database.	<input type="radio"/>	<input checked="" type="radio"/>
Azure Databricks can consume data from Azure Event Hubs.	<input type="radio"/>	<input checked="" type="radio"/>
Azure Databricks can consume data from Azure Cosmos DB.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 52

Which setting can only be configured during the creation of an Azure Cosmos DB account?

- A. geo-redundancy  
B. multi-region writes  
C. production or non-reduction account type  
D. API

Answer: D

Explanation:

You must create a separate account for each API.

NEW QUESTION 56

You have data saved in the following format:

```
<Person Age="23">
  <FirstName>John</FirstName>
  <LastName>Smith</LastName>
  <Hobbies>
    <Hobby Type="Sports">Golf</Hobby>
    <Hobby Type="Leisure">Reading</Hobby>
    <Hobby Type="Leisure">Guitar</Hobby>
  </Hobbies>
</Person>
```

Which format was used?

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

Answer: B

NEW QUESTION 61

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 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:**

Box 1: No

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.

**NEW QUESTION 64**

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

- A. SELECT
- B. INSERT
- C. DELETE
- D. DROP

**Answer:** D

**Explanation:**

Data Definition Language (DDL) statements defines data structures. Use these statements to create, alter, or drop data structures in a database. These statements include:

- > ALTER
- > Collations
- > CREATE
- > DROP
- > DISABLE TRIGGER
- > ENABLE TRIGGER
- > RENAME
- > UPDATE STATISTICS
- > TRUNCATE TABLE

**NEW QUESTION 68**

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

- A. Versioning must be enabled.
- B. Hierarchical namespace must be enabled.
- C. Hierarchical namespace must be disabled.
- D. Versioning must be disabled.

**Answer:** B

**NEW QUESTION 72**

Select the answer that correctly completes the sentence.

**Answer Area**



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

In Microsoft Power BI, a 

dashboard

dashboard

dataset

report

tile

 is a collection of visualizations that appear together on one or more pages.

NEW QUESTION 75

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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.

NEW QUESTION 77

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 checked="" 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 79

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 84

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 88

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
Processing salary payments once a month is an example of a batch workload.	<input type="radio"/>	<input type="radio"/>
A wind turbine that sends 50 sensor readings per second is an example of a streaming workload.	<input type="radio"/>	<input type="radio"/>
A home electricity meter that sends readings once a day to an energy provider is an example of a streaming workload.	<input type="radio"/>	<input type="radio"/>



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
Processing salary payments once a month is an example of a batch workload.	<input checked="" type="radio"/>	<input type="radio"/>
A wind turbine that sends 50 sensor readings per second is an example of a streaming workload.	<input checked="" type="radio"/>	<input type="radio"/>
A home electricity meter that sends readings once a day to an energy provider is an example of a streaming workload.	<input type="radio"/>	<input checked="" type="radio"/>

NEW QUESTION 90

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

Answer: B

NEW QUESTION 93

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 95

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
The Azure Cosmos DB API is configured separately for each database in an Azure Cosmos DB account.	<input type="radio"/>	<input type="radio"/>
Partition keys are used in Azure Cosmos DB to optimize queries.	<input type="radio"/>	<input type="radio"/>
Items contained in the same Azure Cosmos DB logical partition can have different partition keys.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
The Azure Cosmos DB API is configured separately for each database in an Azure Cosmos DB account.	<input checked="" type="radio"/>	<input type="radio"/>
Partition keys are used in Azure Cosmos DB to optimize queries.	<input type="radio"/>	<input checked="" type="radio"/>
Items contained in the same Azure Cosmos DB logical partition can have different partition keys.	<input type="radio"/>	<input checked="" type="radio"/>

NEW QUESTION 97

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 99

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 104

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 105

Select the answer that correctly completes the sentence. See the answer below:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

An Azure Storage account must have Hierarchical namespace enabled to support Azure Data Lake Storage.

NEW QUESTION 110

To complete the sentence, select the appropriate option in the 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. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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.	

#### NEW QUESTION 113

You need to modify a view in a relational database by adding a new column. Which statement should you use?

- A. MERGE
- B. ALTER
- C. INSERT
- D. UPDATE

**Answer:** B

#### NEW QUESTION 117

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 120

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 movement
- Data transformation
- Control

#### NEW QUESTION 125

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

▼

A heap

A stored procedure

A view

An index

is a virtual table that contains content defined by a query.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



▼

A heap

A stored procedure

A view

An index

is a virtual table that contains content defined by a query.

**NEW QUESTION 127**  
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 129**  
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

**Answer:** B

**NEW QUESTION 134**  
To complete the sentence, select the appropriate option in the answer area.

▼

Column family databases

Document databases

Graph databases

Key-value stores

natively support the analysis of relationships between entities.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
Text Description automatically generated

**NEW QUESTION 136**  
To complete the sentence, select the appropriate option in the answer area.

When provisioning an Azure Cosmos DB

▼

account

container

database

item

, you need to specify which type of API you will use.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
Table Description automatically generated

NEW QUESTION 138

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.

Services

Azure Data Factory

Azure Data Lake Storage

Azure SQL Database

Azure Synapse Analytics

Answer Area

Service

Service

Service

Output data to Parquet format

Store data that is in Parquet format

Persist a tabular representation of data that is stored in Parquet format

- A. Mastered
- B. Not Mastered

Answer: A

**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.

NEW QUESTION 139

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

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

Answer: D

**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.

NEW QUESTION 142

A team of developers has computers Thai run Windows 10 and Ubuntu Desktop.  
The developers need to connect to and query an Azure SQL database from the computers. The developers require code assistance features such as intellSense.  
What should the developers use ?

- A. Azure Data Studio
- B. sq1cmd
- C. Microsoft SQL Server Management Studio (SSMS)
- D. Azure Data Explorer

Answer: A

**Explanation:**  
Azure Data Studio is a cross-platform database tool for data professionals who use on-premises and cloud data platforms on Windows, macOS, and Linux. Azure Data Studio offers a modern editor experience with IntelliSense, code snippets, source control integration, and an integrated terminal.

NEW QUESTION 146

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

By default, each Azure SQL database is protected by

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

**NEW QUESTION 149**

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 153**

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


- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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.	

**NEW QUESTION 157**

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

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:**

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.

**NEW QUESTION 161**

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 166**

What is a benefit of the Azure Cosmos DB Table API as compared to Azure Table storage?

- A. supports partitioning
- B. provides resiliency if art Azure region fads
- C. provides a higher storage capacity
- D. supports a multi-master model

**Answer:** D

**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.

**NEW QUESTION 171**

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.

Services

Azure Cognitive Search

Azure Data Catalog

Azure Data Factory

Azure Synapse Analytics

Answer Area

Logs, structured data, and other data structures

Ingest

Service

Store

Azure Data Lake Storage

Preprocess & model

Service

OLAP

Azure Analysis Services

Reporting

Microsoft Power BI

- 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 173**

What is a characteristic of batch processing?

- A. The data ingested during batch processing must be processed as soon as the data is received.
- B. Large datasets must be split into batches of less than 1 GB before the data can be processed.
- C. There is a noticeable time delay between ingesting data and obtaining the data processing results.

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D. Batch processing can only process data that is structured.

Answer: D

NEW QUESTION 175

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 178

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.

Services

Azure Blob storage

Azure Cosmos DB

Azure Files

Azure Table storage

Answer Area

Service

Enables the use of SQL queries against data stored in JSON documents

Service

Enables users to access data by using the Server Message Block (SMB) version 3 protocol

- A. Mastered
- B. Not Mastered

Answer: A

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.

NEW QUESTION 183

Select the answer that correctly completes the sentence.

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 distributes processing across compute nodes.

NEW QUESTION 185

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 automate the creation of an interdependent and develop can deploy from the Azure portal
- C. To provision Azure subscriptions and apply policies for multi-tenant deployments
- D. To set complex permissions automatically on existing objects in an Azure subscription

Answer: A

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.

NEW QUESTION 190

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 195

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 196

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

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

Answer: BC

Explanation:

Azure SQL Database is a fully managed platform as a service (PaaS) database engine that handles most of the database management functions such as upgrading, patching, backups, and monitoring without user involvement. SQL Database delivers predictable performance with multiple resource types, service tiers, and compute sizes. It provides dynamic scalability with no downtime, built-in intelligent optimization, global scalability and availability, and advanced security options. These capabilities allow you to focus on rapid app development and accelerating your time-to-market, rather than on managing virtual machines and infrastructure.

NEW QUESTION 199

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 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.

Values

CREATE

GROUP BY

ORDER BY

SELECT

Answer Area

ValueSalesDate, AVG(SalesAmount)

FROM Sales

ValueSalesDate

- A. Mastered
- B. Not Mastered

Answer: A

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;

NEW QUESTION 200

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 SQL managed instance supports cross-database queries.

☐

☐

Azure SQL managed instance supports user-created backups.

☐

☐

Azure SQL managed instance databases can be restored to SQL Server on an Azure virtual machine.

☐

☐

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements

Yes

No

Azure SQL managed instance supports cross-database queries.

☒

☐

Azure SQL managed instance supports user-created backups.

☐

☒

Azure SQL managed instance databases can be restored to SQL Server on an Azure virtual machine.

☒

☐

#### NEW QUESTION 201

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 use Azure Data Studio to query a Microsoft SQL Server big data cluster.	<input type="radio"/>	<input type="radio"/>
You can use Microsoft SQL Server Management Studio (SSMS) to query an Azure Synapse Analytics data warehouse.	<input type="radio"/>	<input type="radio"/>
You can use MySQL Workbench to query Azure Database for MariaDB databases.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
You can use Azure Data Studio to query a Microsoft SQL Server big data cluster.	<input checked="" type="radio"/>	<input type="radio"/>
You can use Microsoft SQL Server Management Studio (SSMS) to query an Azure Synapse Analytics data warehouse.	<input checked="" type="radio"/>	<input type="radio"/>
You can use MySQL Workbench to query Azure Database for MariaDB databases.	<input checked="" type="radio"/>	<input type="radio"/>



NEW QUESTION 205

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.

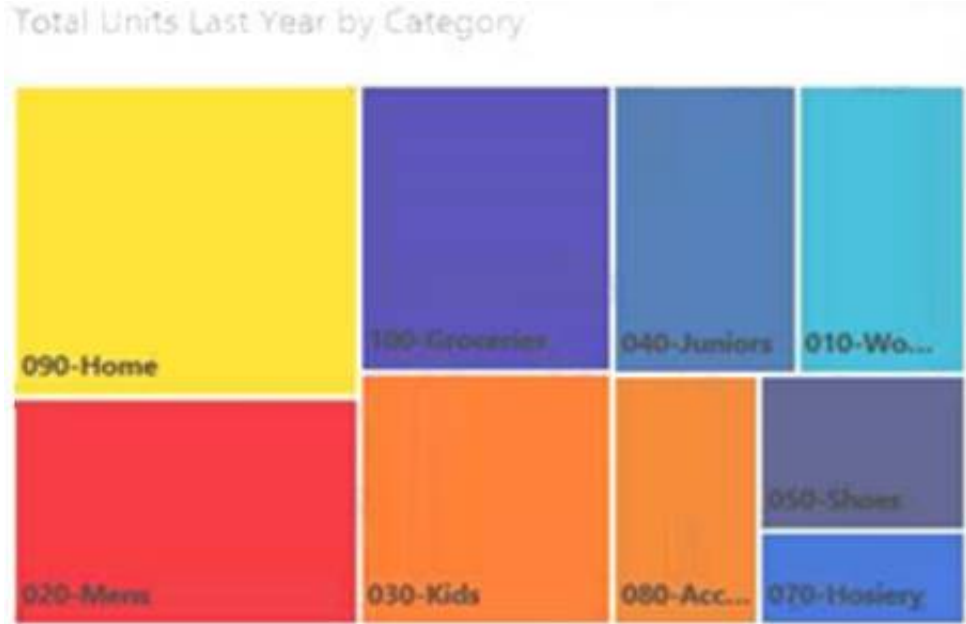
Visualizations	Answer Area
Key influencer	Visualization A chart of colored, nested rectangles that displays individual data points represented by the size and color of a relative rectangle.
Scatter	Visualization A chart that displays the major contributors of a selected result or value.
Treemap	Visualization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

- A. Mastered
- B. Not Mastered

Answer: A

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.

NEW QUESTION 210

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated

Box 1: Yes

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

Box 2: No

Box 3: Yes

Box 4: Yes

Azure Cosmos DB supports multi-region writes.

NEW QUESTION 212

Select the answer that correctly completes the sentence.

Answer Area

In a relational database, each row in a table has

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer as below.

Answer Area

In a relational database, each row in a table has

NEW QUESTION 216

Select the answer that correctly completes the sentence.

Answer Area

A block of code that runs in a database is called

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

A block of code that runs in a database is called

NEW QUESTION 221

Select the answer that correctly completes the sentence.

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

line chart
matrix
scatter
treemap

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 226

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
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:

Answer Area

Statements	Yes	No
Batch processing can output data to a file store.	<input checked="" type="radio"/>	<input type="radio"/>
Batch processing can output data to a relational database.	<input checked="" type="radio"/>	<input type="radio"/>
Batch processing can output data to a NoSQL database.	<input type="radio"/>	<input checked="" type="radio"/>

NEW QUESTION 227

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

Answer Area

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

a data pipeline that includes a transformation engine.

a separate transformation engine.

a target data store powerful enough to transform data

data that is fully processed before being loaded to the target data store.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

a data pipeline that includes a transformation engine.

a separate transformation engine.

a target data store powerful enough to transform data

data that is fully processed before being loaded to the target data store.

NEW QUESTION 232

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 235**

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 238**

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.

Customer is [answer choice].

a nested array

a nested object

a root object

Address is [answer choice].

a nested array

a nested object

a root object

Social media is [answer choice].

a nested array

a nested object

a root object

- A. Mastered
- B. Not Mastered



Answer: A

Explanation:

Customer is [answer choice].

a nested array

a nested object

a root object

Address is [answer choice].

a nested array

a nested object

a root object

Social media is [answer choice].

a nested array

a nested object

a root object

NEW QUESTION 243

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 246

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