

Microsoft

Exam Questions DP-900

Microsoft Azure Data Fundamentals



NEW QUESTION 1

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

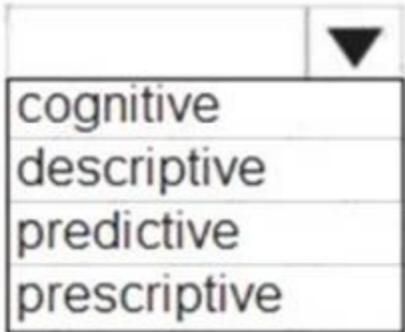
Answer: A

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 2

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

Creating closed caption text for audio files is an example of  analytics.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated with low confidence
 Descriptive, to answer the question: What's happening? Company name Description automatically generated



The diagram illustrates four levels of analytics:

- Descriptive:** Represented by a gauge icon, asking "What's happening?"
- Diagnostic:** Represented by a magnifying glass icon, asking "Why's happening?"
- Predictive:** Represented by a lightbulb icon, asking "What will happen?"
- Prescriptive:** Represented by a square icon with an upward arrow and 'X' marks, asking "What actions should we take?"

Note: Azure Media Indexer enables you to make content of your media files searchable and to generate a full-text transcript for closed captioning and keywords. You can process one media file or multiple media files in a batch.

NEW QUESTION 3

You have the following SQL query.

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

NOTE: Each correct selection is worth one point.

Answer Area

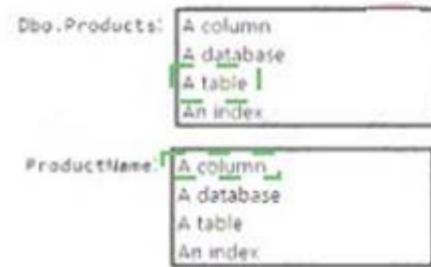
dbo.Products: A column
 A database
 A table
 An index

ProductName: A column
 A database
 A table
 An index

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
 Answer Area



NEW QUESTION 4

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 5

Which Azure Data Factory component provides the compute environment for activities?

- A. a linked service
- B. an integration runtime
- C. a control flow
- D. a pipeline

Answer: B

Explanation:

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

- > Data Flow
- > Data movement
- > Activity dispatch
- > SSIS package execution

NEW QUESTION 6

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 7

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 8

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 9

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 10

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
Normalizing a database increases the throughput of writing transactions.	<input type="radio"/>	<input type="radio"/>
Analytics systems are more normalized than transactional systems.	<input type="radio"/>	<input type="radio"/>
Normalizing a database results in queries that require more joins.	<input type="radio"/>	<input type="radio"/>

A. Mastered
 B. Not Mastered

Answer: A

Explanation:

YES, NO, YES Normalizing decreases throughput for reading (need to make joins), but increases for writing (Less to write, since there are no duplicates)

NEW QUESTION 10

Match the types of data stores to the appropriate scenarios.

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

NOTE: Each correct match is worth one point.

Data Store Types	Answer Area
Graph	<input type="text"/> Application users and their default language
Object	<input type="text"/> Medical images and their associated metadata
Key/value	<input type="text"/> Employee data that shows the relationships between employees

A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Data Store Types	Answer Area
Graph	Key/value Application users and their default language
Object	Object Medical images and their associated metadata
Key/value	Graph Employee data that shows the relationships between employees

NEW QUESTION 15

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
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:

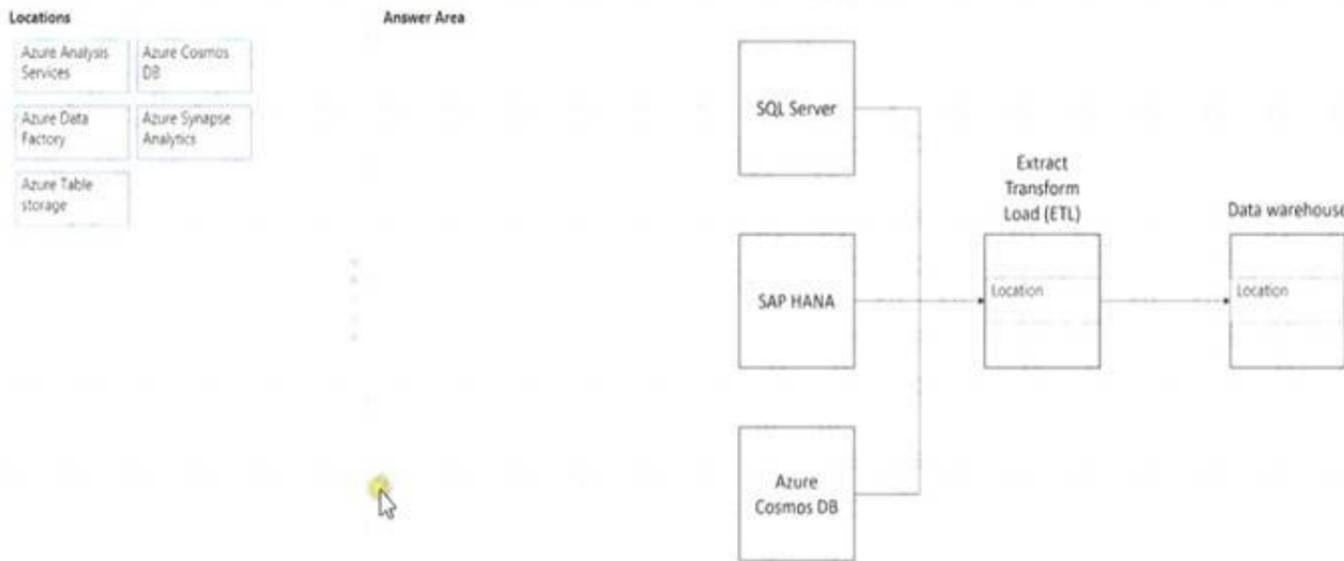
Answer Area

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 checked="" 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 checked="" type="radio"/>
All platform as a service (PaaS) database offerings in Azure can be paused to reduce costs.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 18

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

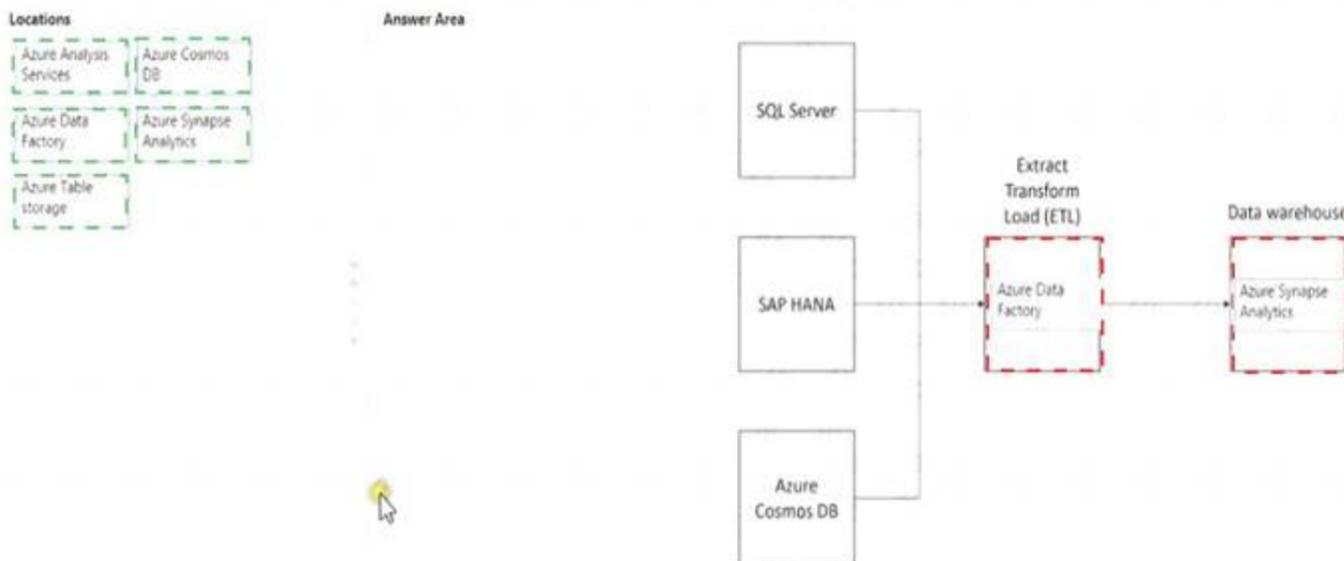
To answer, drag the appropriate service from the column on the left to its location on the right. Each service may be used once, more than once, or not at all.
 NOTE: Each correct match is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 20

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 21

Select the answer that correctly completes the sentence.

Answer Area

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

NEW QUESTION 22

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 23

Match the tools to the appropriate descriptions.

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

NOTE: Each correct match is worth one point.

- Tools**
- Azure Data Studio
 - Microsoft SQL Server Data Tools (SSDT)
 - Microsoft SQL Server Management Studio (SSMS)
 - Microsoft Visual Studio Code

Answer Area

- Tool: A graphical tool for managing Azure SQL databases and viewing SQL execution plans
- Tool: A Microsoft SQL Server extension that supports connections to SQL Server and provides a rich editing experience for T-SQL
- Tool: A lightweight editor that can run on-demand SQL queries and view and save results as text, JSON, or Microsoft Excel files
- Tool: A development tool for building Azure SQL databases, Microsoft SQL Server relational databases, SQL Server Analysis Services (SSAS) data models, SQL Server Integration Services (SSIS) packages, and SQL Server Reporting Services (SSRS) reports

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 28

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 job that processes sales data once daily is an example of a batch workload.	<input type="radio"/>	<input type="radio"/>
A job that calculates a rolling average temperature reading is an example of a streaming workload.	<input type="radio"/>	<input type="radio"/>
A job that calculates average revenue per product for the last month is an example of a streaming workload.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Yes

Batch processing refers to processing of high volume of data in batch within a specific time span. It processes large volume of data all at once. Batch processing is used when data size is known and finite. It takes little longer time to processes data.

Box 2: Yes

Stream processing refers to processing of continuous stream of data immediately as it is produced. It analyzes streaming data in real time. Stream processing is used when the data size is unknown and infinite and continuous.

Box 3: No

NEW QUESTION 30

What are two characteristics of real-time data processing? Each correct answer present a complete solution. NOTE: Each correct selection is worth one point.

- A. Data is processed as it is created.
- B. Low latency is expected
- C. High latency acceptable
- D. Data is processed periodically

Answer: AB

Explanation:

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

NEW QUESTION 33

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

presents content defined by a query.

- A heap
- A stored procedure
- A view
- An index

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
A View

NEW QUESTION 38

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 39

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
Stream processing has access to the most recent data received or data within a rolling time window.	<input type="radio"/>	<input type="radio"/>
Batch processing must occur immediately and have latency in the order of seconds or milliseconds.	<input type="radio"/>	<input type="radio"/>
Stream processing is used for simple response functions, aggregates, or calculations such as rolling averages.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
Graphical user interface, text, application Description automatically generated

NEW QUESTION 40

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 41

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 ▾

NEW QUESTION 45

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 47

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 48

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	Answer Area
Azure SQL Database elastic pool	<input type="text"/> A serverless configuration
Azure SQL Database single database	<input type="text"/> A database that has the highest compatibility with on-premises Microsoft SQL Server
Azure SQL Managed Instance	<input type="text"/> A low-cost, low-maintenance database

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Azure SQL services	Answer Area
Azure SQL Database elastic pool	Azure SQL Database single database A serverless configuration
Azure SQL Database single database	Azure SQL Database elastic pool A database that has the highest compatibility with on-premises Microsoft SQL Server
Azure SQL Managed Instance	Azure SQL Managed Instance A low-cost, low-maintenance database

NEW QUESTION 53

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 55

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 58

You plan to deploy an app. The app requires a nonrelational data service that will provide latency guarantees of less than 10-ms for reads and writes. What should you include in the solution?

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

Answer: A

NEW QUESTION 59

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 63

You are deploying a software as a service (SaaS) application that requires a relational database for Online Transaction Processing (OLTP). Which Azure service should you use to support the application?

- A. Azure Cosmos D3
- B. Azure Synapse Analytics
- C. Azure HCMmtghi
- D. Azure SQL Database

Answer: D

Explanation:

Azure SQL Database is relational database and a managed service.

NEW QUESTION 66

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	Answer Area
Dataset	Component: A representation of data structures within data stores
Linked service	Component: The information used to connect to external resources
Mapping data flow	Component: A logical grouping of activities that performs a unit of work and can be scheduled
Pipeline	

- 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

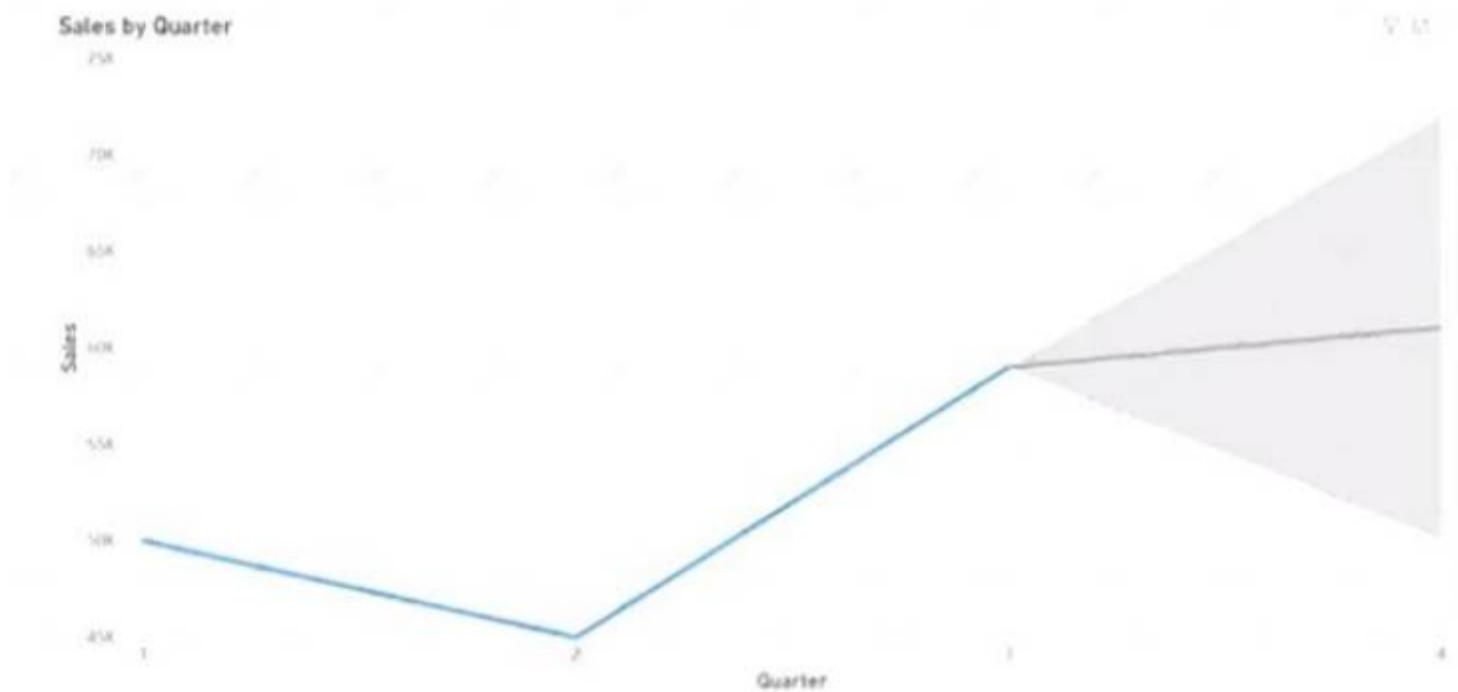
Linked services are much like connection strings, which define the connection information needed for Data Factory to connect to external resources.

Box 3: Pipeline

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

NEW QUESTION 68

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 73

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

The massively parallel processing (MPP) engine of Azure

Synapse Analytics

▼
distributes processing across compute nodes.
distributes processing across control nodes.
redirects client connections across compute nodes.
redirects client connections across control nodes.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

The massively parallel processing (MPP) engine of Azure

Synapse Analytics

▼
distributes processing across compute nodes. !
distributes processing across control nodes.
redirects client connections across compute nodes.
redirects client connections across control nodes.

NEW QUESTION 77

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 82

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

A block of code that runs in a database is called

<input type="text"/>
a stored procedure.
a table.
a view.
an index.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated with medium confidence

NEW QUESTION 83

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 86

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.

Azure Storage account	File share
File system	

Level
Level

- A. Mastered
- B. Not Mastered

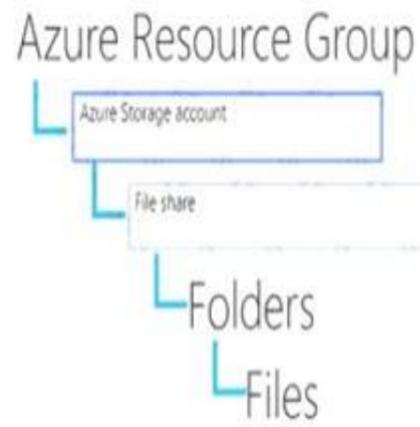
Answer: A

Explanation:

Terms

Azure Storage account	File share
File system	

Answer Area



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 90

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

Where does data processing occur for each stage of the ELT process? To answer, drag the appropriate locations to the correct stages. Each location may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Locations

Answer Area

A standalone data analysis tool	Extract:	<input type="text"/>
The CRM system	Load:	<input type="text"/>
The data warehouse	Transform:	<input type="text"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

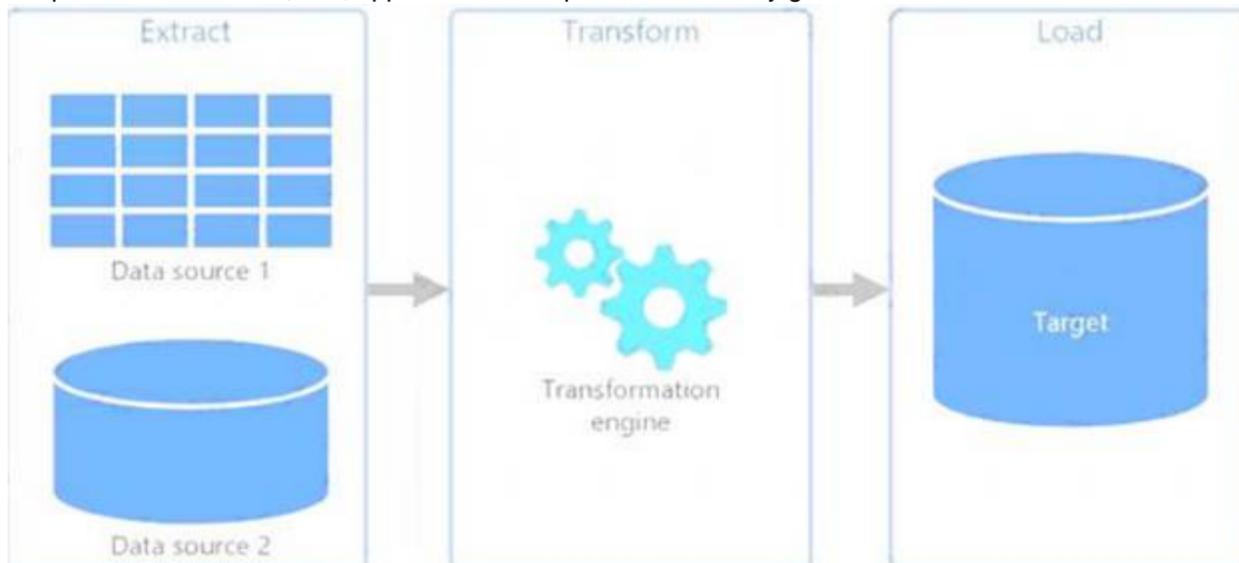
Box 1: The CRM system

Data is extracted from the CRM system. Box 2: The data warehouse

Data is loaded to the data warehouse. Box 3: A standalone data analysis tool

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

Graphical user interface, text, application Description automatically generated



NEW QUESTION 91

Select the answer that correctly completes the sentence.

- A. Mastered

B. Not Mastered

Answer: A

Explanation:

Answer Area

In a graph database, edges specify relationships between

NEW QUESTION 94

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 96

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
Extract, transform, and load (ETL) can reduce the transfer of sensitive data to destination systems.	<input type="radio"/>	<input type="radio"/>
Extract, load, and transform (ELT) transforms data by using a compute resource independent of the source system and destination system.	<input type="radio"/>	<input type="radio"/>
Extract, load, and transform (ELT) minimizes the time it takes to copy large volumes of data to destination systems.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

A screenshot of a computer Description automatically generated with medium confidence

NEW QUESTION 97

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

Answer Area

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

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

- A. Mastered

B. Not Mastered

Answer: A

Explanation:

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).
```

NEW QUESTION 101

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 104

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 108

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	Yes	No
You must apply operating system updates 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:

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 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 112

You have an Azure SQL database that you access directly from the internet. You recently changed your external IP address. After changing the IP address, you can no longer access the database. You can connect to other resources in Azure. What is a possible cause of the issue?

- A. a database-level firewall
- B. role-based access control (RSAC)
- C. Dynamic Host Configuration Protocol (DHCP)
- D. Domain Name Service (DNS)

Answer: A

Explanation:

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

NEW QUESTION 116

Select the answer that correctly completes the sentence.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Relational data is stored in ▼

NEW QUESTION 117

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 118

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 120

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 121

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	Answer Area
Batch	Workload Type: Analyzing web traffic from the past year
Streaming	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 122

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

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

Answer: A

NEW QUESTION 126

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	Answer Area
Azure Data Factory	Service: Output data to Parquet format
Azure Data Lake Storage	Service: Store data that is in Parquet format
Azure SQL Database	Service: Persist a tabular representation of data that is stored in Parquet format
Azure Synapse Analytics	

- 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 131

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

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

- A view
- A clustered index
- A stored procedure
- A nonclustered index

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
Text Description automatically generated

NEW QUESTION 132

A team of developers has computers that 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 IntelliSense. 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 135

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 136

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 137

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

Answer: D

NEW QUESTION 140

You have a quality assurance application that reads data from a data warehouse. Which type of processing does the application use?

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

Answer: A

Explanation:

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

NEW QUESTION 141

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 142

Select the answer that correctly completes the sentence.

Answer Area

Azure Synapse Analytics
Azure SQL Database
Azure Synapse Analytics
Azure Database for MariaDB
SQL Server on Azure virtual machines

is a platform as a service (PaaS) relational data service that uses massively parallel processing (MPP).

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Azure Synapse Analytics
Azure SQL Database
Azure Synapse Analytics
Azure Database for MariaDB
SQL Server on Azure virtual machines

is a platform as a service (PaaS) relational data service that uses massively parallel processing (MPP).

NEW QUESTION 147

Select the answer that correctly completes the sentence.

Answer Area

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

NEW QUESTION 150

At which two levels can you set the throughput for an Azure Cosmos DB account? Each correct answer presents a complete solution.
 NOTE: Each correct selection is worth one point.

- A. container
- B. item
- C. database
- D. partition

Answer: AC

NEW QUESTION 153

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 157

Select the answer that correctly completes the sentence.

Answer Area

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

NEW QUESTION 161

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

Value SalesDate, AVG(SalesAmount)
 FROM Sales
 Value SalesDate

- 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 163

Match the types of workloads the appropriate scenario.

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 Micro-batch Streaming

Answer Area

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Workload Types

Batch Micro-batch Streaming

Answer Area

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

NEW QUESTION 165

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 167

Select the answer the correctly completes the sentence.

Answer Area

is responsible for managing the security of the data in a database.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

A database administrator

is responsible for managing the security of the data in a database.

NEW QUESTION 172

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 173

Match the Azure services to appropriate requirements.

To answer, drag the appropriate services 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.

Azure Services

Azure Data Factory	Azure Data Lake Storage	Azure SQL Database
Azure Synapse Analytics		

Answer Area

Azure Service	Output data to Parquet format.
Azure Service	Store data that is in Parquet format.
Azure Service	Persist a tabular representation of data that is stored in Parquet format.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Azure Services

Azure Data Factory	Azure Data Lake Storage	Azure SQL Database
Azure Synapse Analytics		

Answer Area

Azure Data Factory	Output data to Parquet format.
Azure Data Lake Storage	Store data that is in Parquet format.
Azure Synapse Analytics	Persist a tabular representation of data that is stored in Parquet format.

NEW QUESTION 178

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 183

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 185

.....

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