



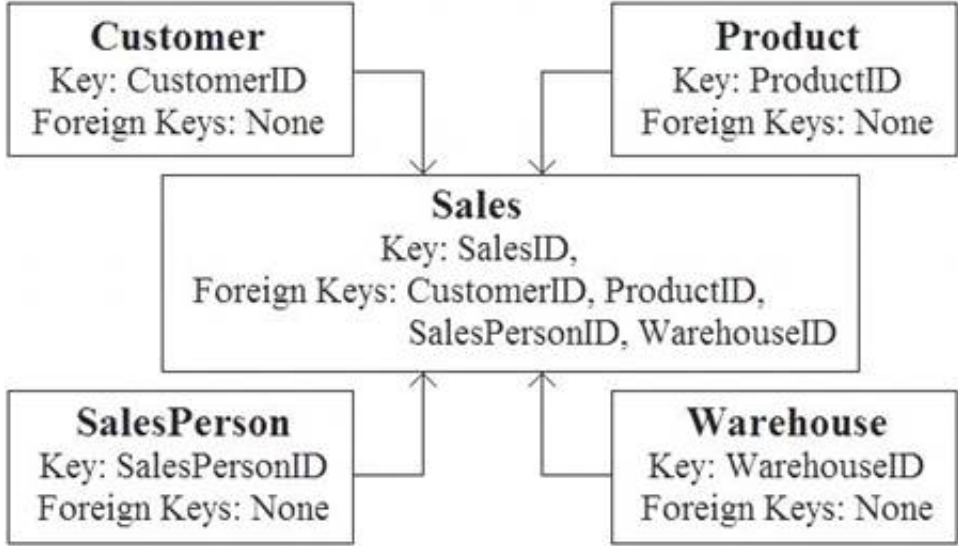
Microsoft

Exam Questions DP-900

Microsoft Azure Data Fundamentals

NEW QUESTION 1

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



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.
NOTE: Each correct selection is worth one point

The data model is a [answer choice].

transactional model

star schema

snowflake schema

Customer is a [answer choice] table.

fact

dimension

bridge

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

The data model is a [answer choice].

transactional model

star schema

snowflake schema

Customer is a [answer choice] table.

fact

dimension

bridge

NEW QUESTION 2

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

Answer Area

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

distributes processing across compute nodes.

distributes prioritizing across control nodes.

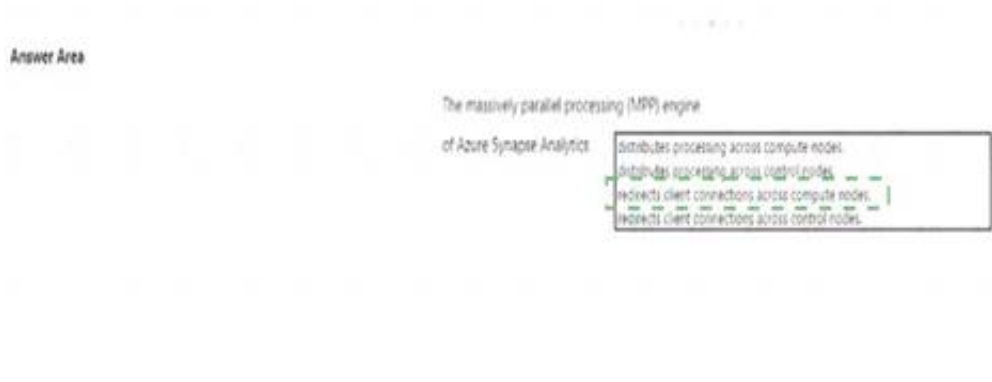
redirects client connections across compute nodes.

redirects client connections across control nodes.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 3

Your company has a reporting solution that has paginated reports. The reports query a dimensional model in a data warehouse. Which type of processing does the reporting solution use?

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

Answer: D

NEW QUESTION 4

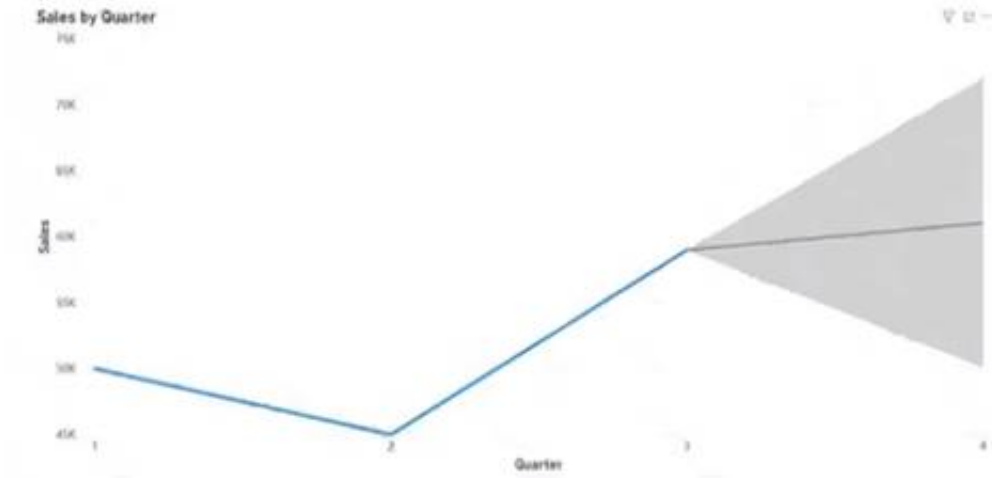
What are two benefits of platform as a service (PaaS) relational database offerings in Azure, such as Azure SQL Database? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- 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

NEW QUESTION 5

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: B

NEW QUESTION 6

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:

Tools

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

Answer Area

Microsoft SQL Server Data Tools (SSDT)	A graphical tool for managing Azure SQL databases and viewing SQL execution plans.
Azure Data Studio	A Microsoft SQL Server extension that supports connections to SQL Server and provides a rich editing experience for T-SQL.
Microsoft SQL Server Management Studio (SSMS)	A lightweight editor that can run on-demand SQL queries and view and save results as text, JSON, or Microsoft Excel files.
Microsoft Visual Studio Code	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 7

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

Answer Area

Relational data uses

collections
columns
keys
partitions

 to enforce relationships between different tables.

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Answer Area

Relational data uses

collections
columns
keys
partitions

 to enforce relationships between different tables.

NEW QUESTION 8

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

- Copy
- Mapping data flow
- Until

NEW QUESTION 9

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 10

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

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

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:

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

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 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.

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 13

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 Synapse Analytics scales storage and compute independently.	<input type="radio"/>	<input type="radio"/>
Azure Synapse Analytics can be paused to reduce compute costs.	<input type="radio"/>	<input type="radio"/>
An Azure Synapse Analytics data warehouse has a fixed storage capacity.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
Azure Synapse Analytics scales storage and compute independently.	<input checked="" type="radio"/>	<input type="radio"/>
Azure Synapse Analytics can be paused to reduce compute costs.	<input checked="" type="radio"/>	<input type="radio"/>
An Azure Synapse Analytics data warehouse has a fixed storage capacity.	<input type="radio"/>	<input checked="" type="radio"/>

NEW QUESTION 17

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:

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

NEW QUESTION 18

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 22

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 26

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 29

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:

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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 33

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

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

Answer: C

NEW QUESTION 38

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

NEW QUESTION 40

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 44

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

Transparent Data Encryption (TDE) encrypts

a column to protect data at rest and in transit.	
queries and their results in order to protect data in transit.	
the database to protect data at rest.	
the server to protect data at rest.	

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Transparent Data Encryption (TDE) encrypts

a column to protect data at rest and in transit.

queries and their results in order to protect data in transit.

the database to protect data at rest.

the server to protect data at rest.

NEW QUESTION 48

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 51

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 56

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: A

NEW QUESTION 59

You need to use Transact-SQL to query files in Azure Data Lake Storage from an Azure Synapse Analytics data warehouse. What should you use to query the files?

- A. Azure Functions
- B. Microsoft SQL Server Integration Services (SSIS)
- C. PolyBase
- D. Azure Data Factory

Answer: C

NEW QUESTION 63

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 64

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 67

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	Answer Area
Cassandra API	<input type="text"/> Graph data
Gremlin API	<input type="text"/> JSON documents
MongoDB API	<input type="text"/> Key/value data
Table API	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

APIs

Cassandra API

Gremlin API

MongoDB API

Table API

Answer Area

Gremlin API

Graph data

MongoDB API

JSON documents

Table API

Key/value data

NEW QUESTION 69

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

- A. a control flow
- B. a trigger
- C. a parameter
- D. an activity

Answer: B

NEW QUESTION 74

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

A database object that holds data

View

A database object whose content is defined by a query

Index

A database object that helps improve the speed of data retrieval

NEW QUESTION 75

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

- A. denormalized data
- B. heavy writes and moderate reads
- C. light writes and heavy reads
- D. schema on write
- E. schema on read
- F. normalized data

Answer: BDE

NEW QUESTION 79

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. Each location may be used 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.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 80

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

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

Answer: B

NEW QUESTION 82

What are two uses of data visualization? Each correct answer present a complete solution. NOTE: Each correct selection is worth one point.

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

Answer: AC

NEW QUESTION 85

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 87

You have an e-commerce application that reads and writes data to an Azure SQL database. Which type of processing does the application use?

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

Answer: D

NEW QUESTION 92

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

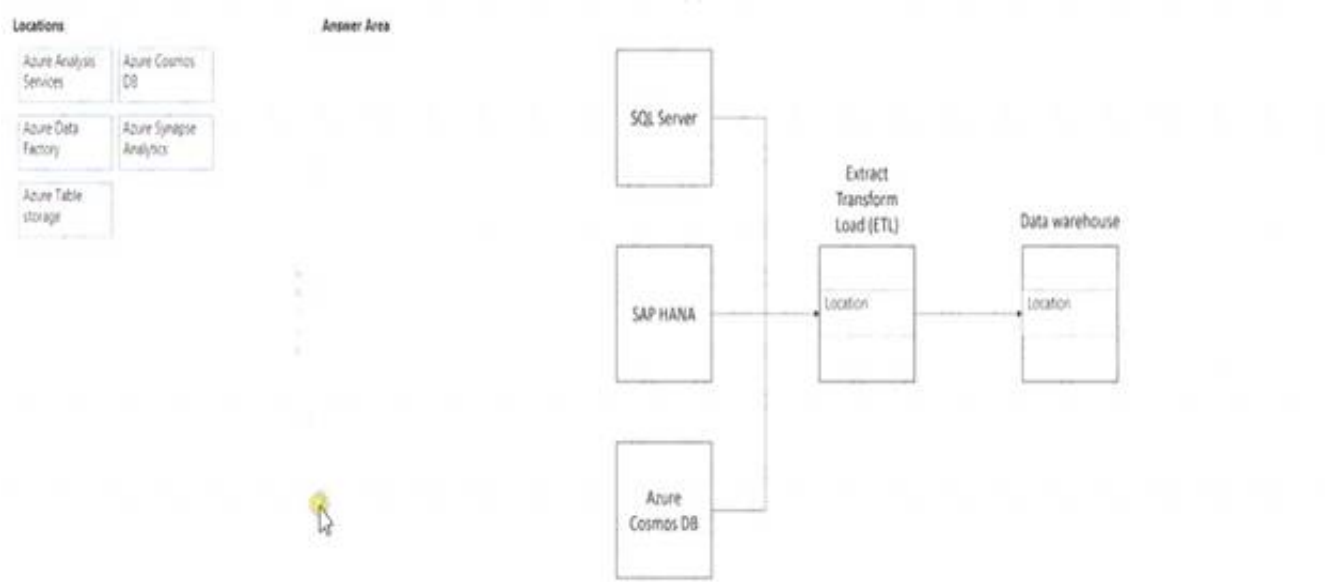
- A. database
- B. partition
- C. collection

D. account

Answer: C

NEW QUESTION 96

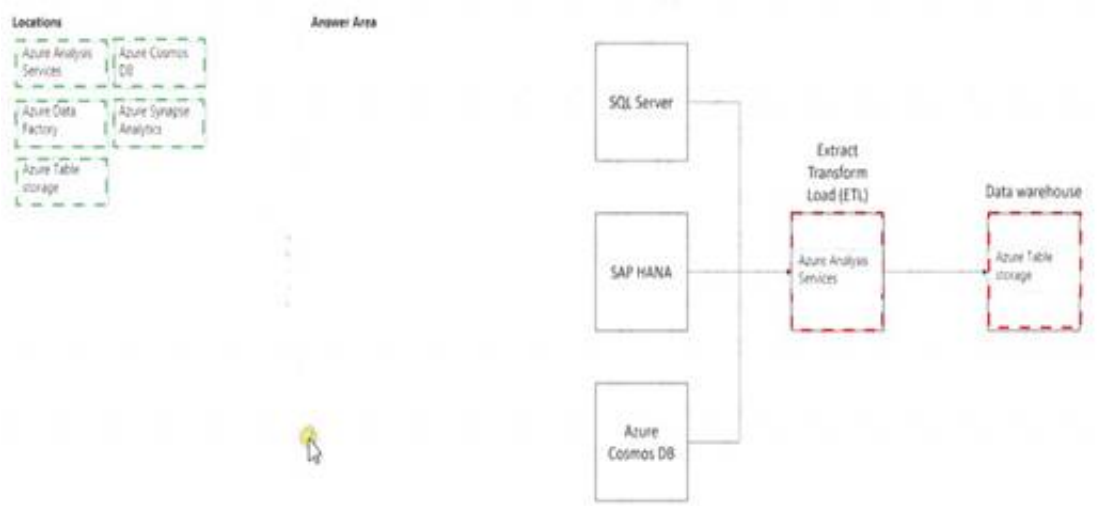
Match the Azure services to the appropriate locations in the architecture.
To answer, drag the appropriate service from the column on the left to its location on the right. Each service may be used once, more than once, or not at all.
NOTE: Each correct match is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 99

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: B

NEW QUESTION 104

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

A clustered index

A FileTable

A foreign key

A stored procedure

is an object associated with a table that sorts and stores the data rows in the table based on their key values.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

A clustered index

A FileTable

A foreign key

A stored procedure

is an object associated with a table that sorts and stores the data rows in the table based on their key values.

NEW QUESTION 105

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

- A. Azure Disk Storage
- B. Azure Data Lake Storage
- C. Azure Blob storage
- D. Azure Queue storage

Answer: B

NEW QUESTION 106

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: B

NEW QUESTION 111

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 116

You have a SQL query that combines customer data and order data. The query includes calculated columns. You need to persist the SQL query so that other users can use the query. What should you create?

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

Answer: B

NEW QUESTION 120

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 121

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

NEW QUESTION 124

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

Answer Area

A key/value data store is optimized for

enforcing constraints.

simple lookups.

table joins.

transactions.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

A key/value data store is optimized for

enforcing constraints.

simple lookups.

table joins.

transactions.

NEW QUESTION 126

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 131

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 133

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: B

NEW QUESTION 134

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