

Exam Questions DP-900

Microsoft Azure Data Fundamentals

<https://www.2passeasy.com/dumps/DP-900/>



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

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 3

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

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

Answer: D

NEW QUESTION 4

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 5

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

Transcribing audio files is an example of

	▼
cognitive	
descriptive	
predictive	
prescriptive	

 analytics.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Transcribing audio files is an example of

	▼
cognitive	
descriptive	
predictive	
prescriptive	

 analytics.

NEW QUESTION 6

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

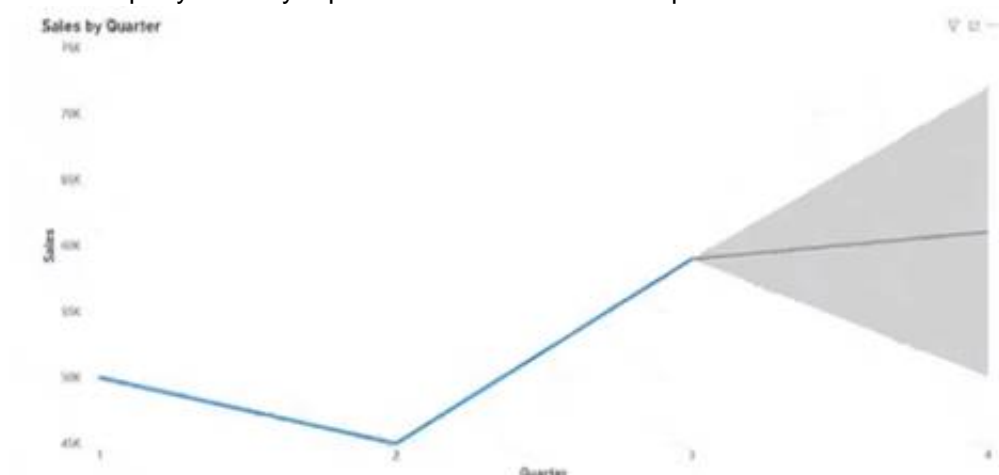
Explanation:

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 7

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 8

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 9

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

- A. Azure SQL Database Hyperscale
 B. Azure SQL managed instance

- C. Azure SQL Database serveless
- D. Azure SQL Database elastic pod

Answer: B

NEW QUESTION 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.

Answer Area

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:

Answer Area

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 12

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: BD

NEW QUESTION 15

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.



- A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 20

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 25

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

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 SQL Database includes a fully managed backup service.	<input type="radio"/>	<input type="radio"/>
Azure SQL Database has built-in high availability.	<input type="radio"/>	<input type="radio"/>
Azure SQL Database can use Azure Advanced Threat Protection (ATP).	<input type="radio"/>	<input type="radio"/>

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
Azure SQL Database includes a fully managed backup service.	<input checked="" type="radio"/>	<input type="radio"/>
Azure SQL Database has built-in high availability.	<input checked="" type="radio"/>	<input type="radio"/>
Azure SQL Database can use Azure Advanced Threat Protection (ATP).	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 32

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

NEW QUESTION 34

Match the security components to the appropriate scenarios.

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

NOTE: Each correct match is worth one point.

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

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 36

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 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 42

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 47

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: C

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 53

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 58

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 61

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:	<div><div>A column</div><div>A database</div><div>A table</div><div>An index</div></div>
ProductName:	<div><div>A column</div><div>A database</div><div>A table</div><div>An index</div></div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Dbo.Products:	<div><div>A column</div><div>A database</div><div>A table</div><div>An index</div></div>
ProductName:	<div><div>A column</div><div>A database</div><div>A table</div><div>An index</div></div>

NEW QUESTION 66

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 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 71

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 73

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

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

graph.
table.
partition key.
document.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

graph. |
table.
partition key.
document.

NEW QUESTION 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

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 76

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

Streaming

Micro-batch

Data for a product catalog will be loaded every 12 hours to a data warehouse.

Data for online purchases will be loaded to a data warehouse as the purchases occur.

Updates to inventory data will be loaded to a data warehouse every 1,000 transactions.

NEW QUESTION 79

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

Graph

Object

Key/value

Answer Area

Application users and their default language

Medical images and their associated metadata

Employee data that shows the relationships between employees

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Data Store Types

Graph

Object

Key/value

Answer Area

Key/value

Object

Graph

Application users and their default language

Medical images and their associated metadata

Employee data that shows the relationships between employees

NEW QUESTION 82

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.

Locations

An in-memory data integration tool

The CRM system

The data warehouse

Answer Area

Extract

Load

Transform

Location

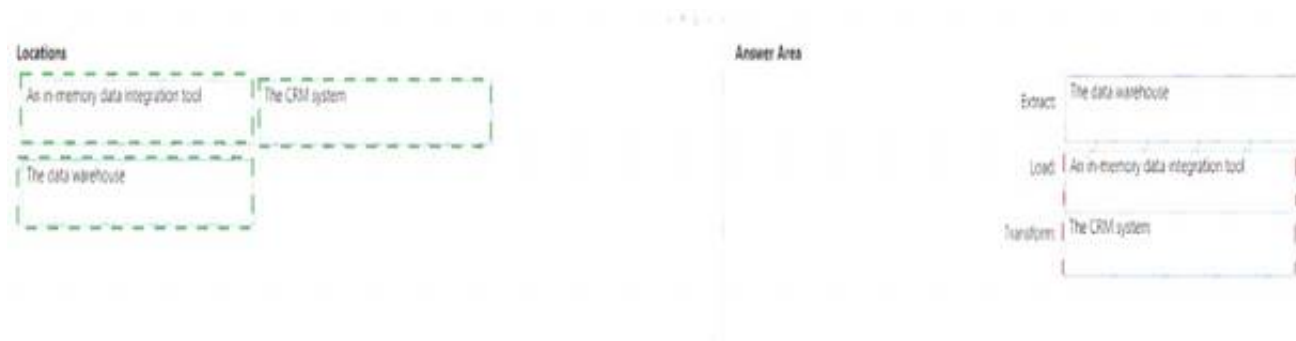
Location

Location

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 85

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 87

Your company is designing a data store for internet-connected temperature sensors. The collected data will be used to analyze temperature trends. Which type of data store should you use?

- A. relational
- B. columnar
- C. graph
- D. time series

Answer: A

NEW QUESTION 91

Your company needs to implement a relational database in Azure. The solution must minimize ongoing maintenance. Which Azure service should you use?

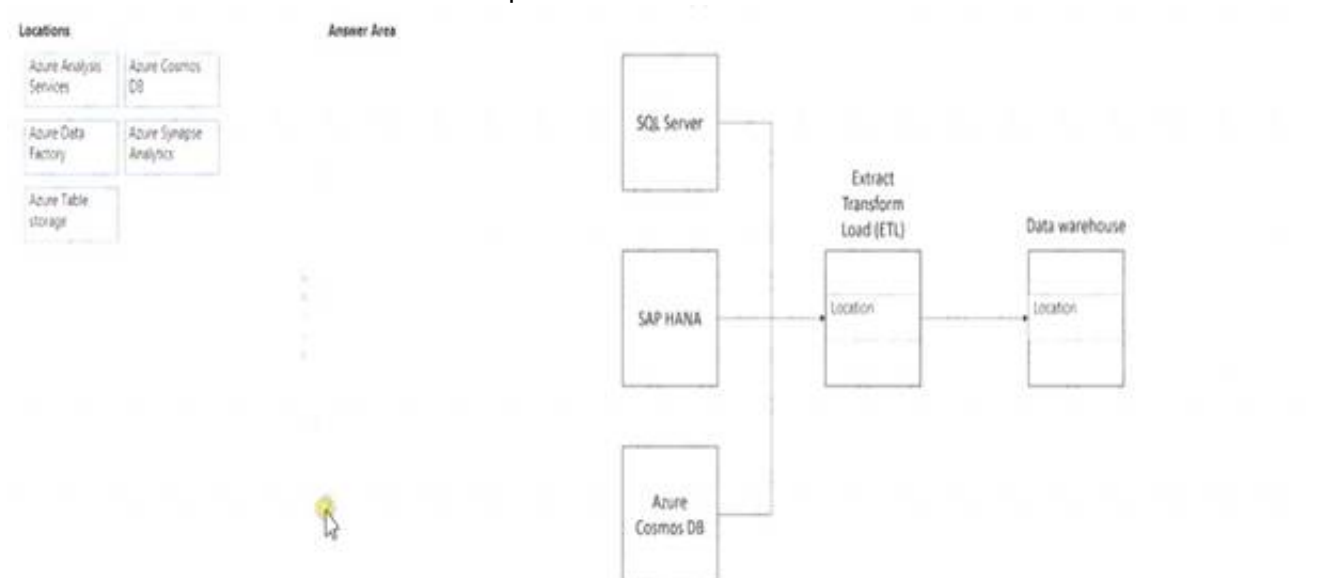
- A. Azure HDInsight
- B. Azure SQL Database
- C. Azure Cosmos DB
- D. SQL Server on Azure virtual machines

Answer: B

NEW QUESTION 95

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

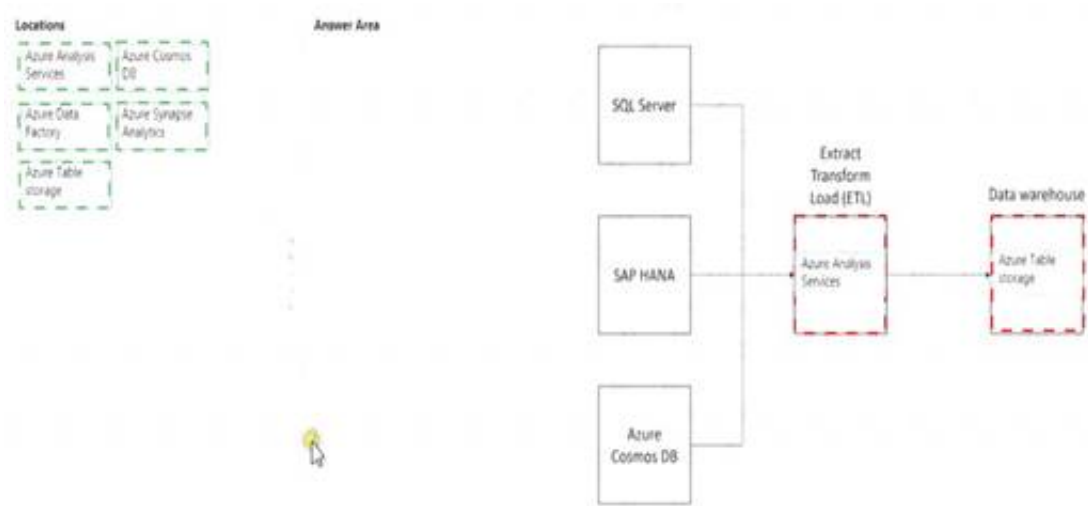
To answer, drag the appropriate service from the column on the left to its location on the right. Each service may be used once, more than once, or not at all.
 NOTE: Each correct match is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 96

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 100

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 102

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 103

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 107

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 109

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 112

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

In batch processing,

▼

data is always inserted one row at a time.

data is processed in real-time.

latency is expected.

processing can only execute serially.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

In batch processing,

data is always inserted one row at a time.
data is processed in real-time.
latency is expected.
processing can only execute serially.

NEW QUESTION 113

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:

Values

CREATE GROUP BY ORDER BY SELECT

Answer Area

CREATE SalesDate, AVG(SalesAmount)
FROM Sales
SELECT SalesDate

NEW QUESTION 118

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

Answer Area

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

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Paginated Reports

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

NEW QUESTION 123

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

Answer Area

A relational database is appropriate for scenarios that involve a high volume of writes that have varying data structures.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

12345

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

changes to relationships between entities.

geographically distributed writes.

transactional writes.

writes that have varying data structures.

NEW QUESTION 124

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

a control flow

a dataset

a linked service

an integration runtime

to orchestrate pipeline

activities that depend on the output of other pipeline activities.

NEW QUESTION 127

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