Microsoft

Exam Questions DP-900

Microsoft Azure Data Fundamentals

NEW QUESTION 1
A bar chart showing year-to date sales by region is an example of which type of analytics?

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

Answer: B

NEW QUESTION 2
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
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 4
For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
Azure Data Studio can be used to query an Azure SQL database from a device that runs macOS.	○	○
Microsoft SQL Server Management Studio (SSMS) enables users to create and use SQL notebooks.	○	○
Azure Data Studio can be used to restore a database.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
Azure Data Studio can be used to query an Azure SQL database from a device that runs macOS.	○	☑
Microsoft SQL Server Management Studio (SSMS) enables users to create and use SQL notebooks.	○	☑
Azure Data Studio can be used to restore a database.	☑	○

NEW QUESTION 5
You need to query a table named Products in an Azure SQL database.
Which three requirements must be met to query the table from the internet? Each correct answer presents part of the solution. (Choose three.)
NOTE: Each correct selection is worth one point.

A. You must be assigned the Reader role for the resource group that contains the database.
B. You must have SELECT access to the Products table.
C. You must have a user in the database.
D. You must be assigned the Contributor role for the resource group that contains the database.
E. Your IP address must be allowed to connect to the database.

Answer: ACE

NEW QUESTION 6

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

Batch workloads [▼]

process data in memory, row-by-row.
collect and process data at most once a day.
process data as new data is received in near real-time.
collect data and then process the data when a condition is met.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Batch workloads [▼]

process data in memory, row-by-row.
collect and process data at most once a day.
process data as new data is received in near real-time.
collect data and then process the data when a condition is met.

NEW QUESTION 7
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.	○	○
A Microsoft Power BI dashboard can only display visualizations from a single dataset.	○	○
A Microsoft Power BI dashboard can display visualizations from a Microsoft Excel workbook.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
A Microsoft Power BI dashboard is associated with a single workspace.	○	⊙
A Microsoft Power BI dashboard can only display visualizations from a single dataset.	○	⊙
A Microsoft Power BI dashboard can display visualizations from a Microsoft Excel workbook.	⊙	○

NEW QUESTION 8
For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Statements	Yes	No
Normalization involves eliminating relationships between database tables.	○	○
Normalizing a database reduces data redundancy.	○	○
Normalization improves data integrity.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
Normalization involves eliminating relationships between database tables.	○	[○]
Normalizing a database reduces data redundancy.	[○]	○
Normalization improves data integrity.	[○]	○

NEW QUESTION 9
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)
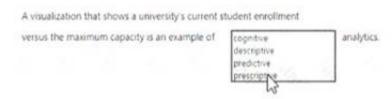B. Microsoft SQL Server Management Studio (SSMS)
C. Azure Databricks
D. Azure Data Studio

Answer: A

NEW QUESTION 10
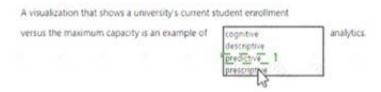To complete the sentence, select the appropriate option in the answer area.

Answer Area

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

cognitive
descriptive
predictive
prescriptive

analytics.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

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

cognitive
descriptive
predictive
prescriptive

analytics.

NEW QUESTION 10
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 12
To complete the sentence select the appropriate option in the answer area.

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:

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.

NEW QUESTION 16
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 21
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.	○	○
Azure Table storage supports multiple write regions.	○	○
The Azure Cosmos DB Table API supports multiple read replicas.	○	○
The Azure Cosmos DB Table API supports multiple write regions.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
Azure Table storage supports multiple read replicas.	O	O
Azure Table storage supports multiple write regions.	O	O
The Azure Cosmos DB Table API supports multiple read replicas.	O	O
The Azure Cosmos DB Table API supports multiple write regions.	O	O

NEW QUESTION 25

Match the types of analytics that can be used to answer the business questions.

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

NOTE: Each correct match is worth one point.

Analytics Types

Cognitive	Descriptive	Diagnostic	Predictive	Prescriptive

Answer Area

Analytics Type	Why did sales increase last month?
Analytics Type	How do I allocate my budget to buy different inventory items?
Analytics Type	Which people are mentioned in a company's business documents?

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Analytics Types

Cognitive	Descriptive	Diagnostic	Predictive	Prescriptive

Answer Area

Diagnostic	Why did sales increase last month?
Predictive	How do I allocate my budget to buy different inventory items?
Cognitive	Which people are mentioned in a company's business documents?

NEW QUESTION 27

Which scenario is an example of a streaming workload?

A. sending transactions that are older than a month to an archive
B. sending transactions daily from point of sale (POS) devices
C. sending telemetry data from edge devices
D. sending cloud infrastructure metadata every 30 minutes

Answer: C

NEW QUESTION 30

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 32
When can you use an Azure Resource Manager template?

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

Answer: C

NEW QUESTION 33
Which statement is an example of Data Definition Language (DDL)?

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

Answer: D

NEW QUESTION 35
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 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
Azure Databricks is an Apache Spark-based collaborative analytics platform.	○	○
Azure Analysis Services is used for transactional workloads.	○	○
Azure Data Factory orchestrates data integration workflows.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
Azure Databricks is an Apache Spark-based collaborative analytics platform.	○	○
Azure Analysis Services is used for transactional workloads.	○	○
Azure Data Factory orchestrates data integration workflows.	○	○

NEW QUESTION 43

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

Descriptive analytics tells you ▼

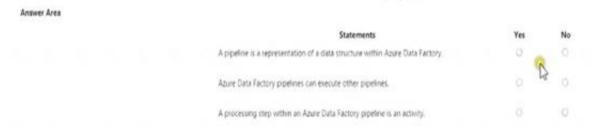| what is most likely to occur in the future. |
| --- |
| what occurred in the past. |
| which actions you can perform to affect outcomes. |
| why something occurred in the past. |

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 44
For each of the following statements, select Yes if the statement is true. Otherwise select No. NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
A pipeline is a representation of a data structure within Azure Data Factory.	○	○
Azure Data Factory pipelines can execute other pipelines.	○	○
A processing step within an Azure Data Factory pipeline is an activity.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
A pipeline is a representation of a data structure within Azure Data Factory.	○	☑
Azure Data Factory pipelines can execute other pipelines.	☑	○
A processing step within an Azure Data Factory pipeline is an activity.	○	☑

NEW QUESTION 45
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 47
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 50
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.	○	○
You need a Microsoft 365 subscription to create an Azure SQL database.	○	○
You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
You must apply patches to Azure SQL databases regularly.	○	⊙
You need a Microsoft 365 subscription to create an Azure SQL database.	○	⊙
You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases.	⊙	○

NEW QUESTION 53
Which type of non-relational data store supports a flexible schema, stores data as JSON files, and stores the all the data for an entity in the same document?

A. document
B. columnar
C. graph
D. time series

Answer: A

NEW QUESTION 58
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.	○	○
Azure Databricks can consume data from Azure Event Hubs.	○	○
Azure Databricks can consume data from Azure Cosmos DB.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
Azure Databricks can consume data from Azure SQL Database.	○	⊙
Azure Databricks can consume data from Azure Event Hubs.	○	⊙
Azure Databricks can consume data from Azure Cosmos DB.	⊙	○

NEW QUESTION 63
Match the Azure Cosmos DB APIs to the appropriate data structures.
To answer, drag the appropriate API from the column on the left to its data structure on the right. Each API may be used once, more than once, or not at all.
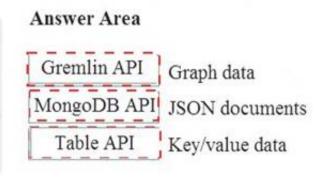NOTE: Each correct match is worth one point.

APIs

| Cassandra API |
| Gremlin API |
| MongoDB API |
| Table API |

Answer Area

	Graph data
	JSON documents
	Key/value data

A. Mastered
B. Not Mastered

Answer: A

Explanation:

APIs

| Cassandra API |
| Gremlin API |
| MongoDB API |
| Table API |

Answer Area

Gremlin API	Graph data
MongoDB API	JSON documents
Table API	Key/value data

NEW QUESTION 65

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

Answer Area

Statements	Yes	No
Azure SQL managed instance supports cross-database queries.	○	○
Azure SQL managed instance supports user-created backups.	○	○
Azure SQL managed instance databases can be restored to SQL Server on an Azure virtual machine.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

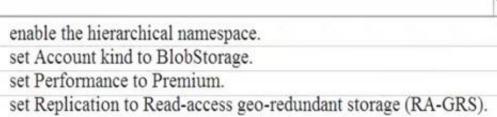| Statements	Yes	No
Azure SQL managed instance supports cross-database queries.	○	○
Azure SQL managed instance supports user-created backups.	○	○
Azure SQL managed instance databases can be restored to SQL Server on an Azure virtual machine.	○	○

NEW QUESTION 67

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

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

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

A. Mastered
B. Not Mastered

Answer: A

Explanation:

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

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

NEW QUESTION 72
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 75
Your company is designing a data store tor internet-connected temperature sensors. The collected data will be used to analyze temperature trends. Which type of data store should you use?

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

Answer: A

NEW QUESTION 78
For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
If you have a platform as a service (PaaS) database in Azure, you are responsible for applying operating system updates.	○	○
If you have a platform as a service (PaaS) database in Azure, backups are performed automatically.	○	○
If you have a platform as a service (PaaS) database in Azure, you are responsible for upgrading the database engine.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
If you have a platform as a service (PaaS) database in Azure, you are responsible for applying operating system updates.	☑	○
If you have a platform as a service (PaaS) database in Azure, backups are performed automatically.	○	☑
If you have a platform as a service (PaaS) database in Azure, you are responsible for upgrading the database engine.	☑	○

NEW QUESTION 80
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?
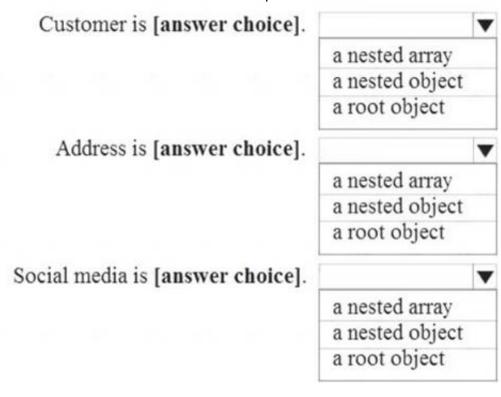
A. queue
B. blob
C. file
D. table

Answer: B

NEW QUESTION 81
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.
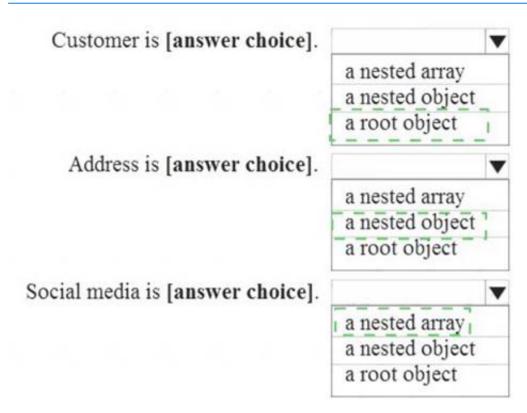NOTE: Each correct selection is worth one point.

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 83
Your company if 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 86
You need to create an Azure Storage account.
Data in the account must replica outside the Azure region automatically.
Which two types of replica can you us for the storage account? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one pint.

A. read-access geo-redundant storage (RA_GRS)
B. zone-redundant storage (ZRS)
C. geo-redundant storage (GRS)
D. locally-redundant storage (LRS)

Answer: AC

NEW QUESTION 88
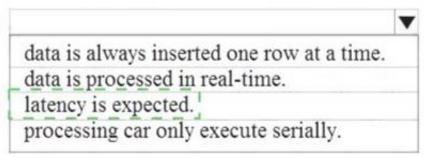To complete the sentence, select the appropriate option in the answer area.

In batch processing,

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

NEW QUESTION 93

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

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

Answer: B

NEW QUESTION 96
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 98
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