DP-900^{Q&As}

Microsoft Azure Data Fundamentals

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QUESTION 1

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

When using the Azure Cosmos DB Gremlin API,

the container resource type is projected as a | graph. ▼ |

Correct Answer:

When using the Azure Cosmos DB Gremlin API,

the container resource type is projected as a | graph. ▼ |

QUESTION 2

What is a characteristic of a non-relational database?

A. a fixed schema

B. self-describ ing entities

C. full support for Transact-SQL

Correct Answer: B

QUESTION 3

HOTSPOT

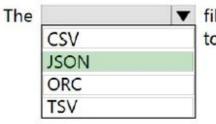Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

The [CSV ▼] file format uses a hierarchical document schema
to define data entities that have multiple attributes.

CSV
JSON
ORC
TSV

Correct Answer:

Answer Area

The [▼] file format uses a hierarchical document schema
to define data entities that have multiple attributes.

CSV
JSON
ORC
TSV

QUESTION 4

DRAG DROP

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.
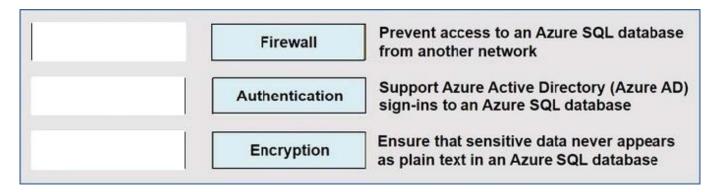
NOTE: Each correct match is worth one point.

Select and Place:

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

Correct Answer:

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

Reference: https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-a-windows-firewall-for-database-engine-access?view=sql-server-ver15 https://docs.microsoft.com/en-us/azure/azure-sql/database/authentication-aad-overview https://docs.microsoft.com/en-us/azure/azure-sql/database/always-encrypted-certificate-store-configure

QUESTION 5

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 DB

B. Azure Table storage

C. Azure Files

D. Azure Blob storage

Correct Answer: A

QUESTION 6

HOTSPOT

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Hot 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.	○	○

Correct Answer:

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.	●	○

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.

Reference:https://docs.microsoft.com/en-us/sql/azure-data-studio/what-is-azure-data-studio

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QUESTION 7

In a fully denormalized database, how is data read and written for a single entity?

A. Data is read from a single table and written to a single table.

B. Data is read from multiple tables and written to a single table.

C. Data is read from a single table and written to multiple tables.

D. Data is read from multiple tables and written to multiple tables.

Correct Answer: A

Denormalization involves consolidating data into a single table to reduce the need for joins and simplify querying. This results in improved read performance as all the necessary data for a single entity can be retrieved from a single table without requiring joins with other tables. Similarly, when writing data, it is written to a single table without the need to update multiple tables. This approach is commonly used in data warehousing and reporting scenarios where read performance is prioritized over storage efficiency and data modification speed.

QUESTION 8

HOTSPOT

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

Hot Area:

When provisioning an Azure Cosmos DB [▼] ,

account
container
database
item

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

Correct Answer:

When provisioning an Azure Cosmos DB [▼] ,

| account |
| container |
| database |
| item |

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

QUESTION 9

HOTSPOT

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

Hot Area:

Statements	Yes	No
Database administrators apply data cleansing routines and turn data into useful information.	○	○
Data engineers manage databases, store backup copies of data, and restore data in the event of a failure.	○	○
Data analysts create data visuals and enable companies to make data-driven decisions.	○	○

Correct Answer:

Statements	Yes	No
Database administrators apply data cleansing routines and turn data into useful information.	○	●
Data engineers manage databases, store backup copies of data, and restore data in the event of a failure.	○	●
Data analysts create data visuals and enable companies to make data-driven decisions.	●	○

QUESTION 10

You have an application that runs on Windows and requires across to a mapped drive. Which Azure service should you use?

A. Azure Cosmos DB

B. Azure Table storage

C. Azure Files

D. Azure Blob Storage

Correct Answer: C

QUESTION 11

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

Varying fields for each entity in a JSON document is an example of ▼

| relational data. |
| semi-structured data. |
| structured data. |
| unstructured data. |

Correct Answer:

Answer Area

Varying fields for each entity in a JSON document is an example of ▼

| relational data. |
| semi-structured data. |
| structured data. |
| unstructured data. |

Semi-structured is correct. Semi-structured is supported via JSON, XML.

QUESTION 12

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

In an analytical model designed as a star schema, the entities by which you aggregate or slice measures are called

▼
cubes.
dimensions.
facts.
schemas.

Correct Answer:

Answer Area

In an analytical model designed as a star schema, the entities by which you aggregate or slice measures are called

▼
cubes.
dimensions.
facts.
schemas.

Dimensions:- In a star schema, the entities by which you aggregate or slice measures are called dimensions. Dimensions are the descriptive attributes or perspectives of the data that provide the context for the measures (also known as facts)

in the model.

For example, in a sales data star schema, the dimensions could be time, product, store location, and customer. These dimensions provide context for the sales measures such as total sales, units sold, and revenue. By aggregating or slicing

the measures by different dimensions, you can gain insights into the data from different perspectives.

QUESTION 13

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

In batch processing, | delay in delivering data processing results is acceptable. | ▼ |

Correct Answer:

| In batch processing, | delay in delivering data processing results is acceptable. | ▼ |

QUESTION 14

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

Correct Answer: C

QUESTION 15

You have an on-premises Microsoft SQL Server database.

You need to migrate the database to the cloud. The solution must meet the following requirements:

*

 Minimize maintenance effort.

*

 Support the Database Mail and Service Broker features. What should you include in the solution?

A.

Azure SQL Database single database

B.

an Azure SQL Database elastic pool

C.

Azure SQL Managed instance

D.

SQL Server on Azure virtual machines

Correct Answer: C

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