➢ **Vendor:** Microsoft

➢ **Exam Code:** DP-900

➢ **Exam Name:** Microsoft Azure Data Fundamentals

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QUESTION 126
Hotspot Question
To complete the sentence, select the appropriate option in the answe area.

Answer:

QUESTION 127
Hotspot Question
To complete the sentence, select the appropriate option in the answer area.

Answer:

QUESTION 128
Drag and Drop Question
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.

Answer:

QUESTION 129
Drag and Drop Question
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.

Answer:

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QUESTION 130
Hotspot Question
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.	○	○

Answer:

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.	●	○

QUESTION 131
Hotspot Question
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.

Answer:

Answer Area

A key/value data store is optimized for
- enforcing constraints.
- simple lookups.
- table joins.
- transactions.

QUESTION 132
Hotspot Question
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.	○	○
Partition keys are used in Azure Cosmos DB to optimize queries.	○	○
Items contained in the same Azure Cosmos DB logical partition can have different partition keys.	○	○

Answer:

Answer Area

Statements	Yes	No
The Azure Cosmos DB API is configured separately for each database in an Azure Cosmos DB account.	●	○
Partition keys are used in Azure Cosmos DB to optimize queries.	○	●
Items contained in the same Azure Cosmos DB logical partition can have different partition keys.	○	●

QUESTION 133
Drag and Drop Question
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

Answer:

File system

Azure Storage account
File share

QUESTION 134
Drag and Drop Question
Match the types of data to the appropriate Azure data services. To answer, drag the appropriate data types from the column on the left to its service on the right. Each data type may be used once, more than once, or not at all.
NOTE: Each correct match is worth one point.

Data Types

Image files	Key/value pairs
Relationships between employees	

Answer Area

Data Type	Azure Blob storage
Data Type	Azure Cosmos DB Gremlin API
Data Type	Azure Table storage

Answer:

Data Types

Answer Area

Image files	Azure Blob storage
Key/value pairs	Azure Cosmos DB Gremlin API
Relationships between employees	Azure Table storage

QUESTION 135
Drag and Drop Question
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	Answer Area	
Azure Data Studio	Tool	A graphical tool for managing SQL Server or Azure SQL databases that supports access, configuration, management, and administration tasks.
Microsoft SQL Server Data Tools (SSDT)	Tool	A lightweight source code editor with an mssql extension that supports connections to SQL Server and a rich editing experience for T-SQL.
Microsoft SQL Server Management Studio (SSMS)	Tool	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	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.

Answer:

Tools	Answer Area	
	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.

QUESTION 136
Hotspot Question
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.	O	O
Platform as a service (PaaS) database offerings in Azure provide administrators with the ability to control and update the operating system version.	O	O
All platform as a service (PaaS) database offerings in Azure can be paused to reduce costs.	O	O

Answer:

Answer Area

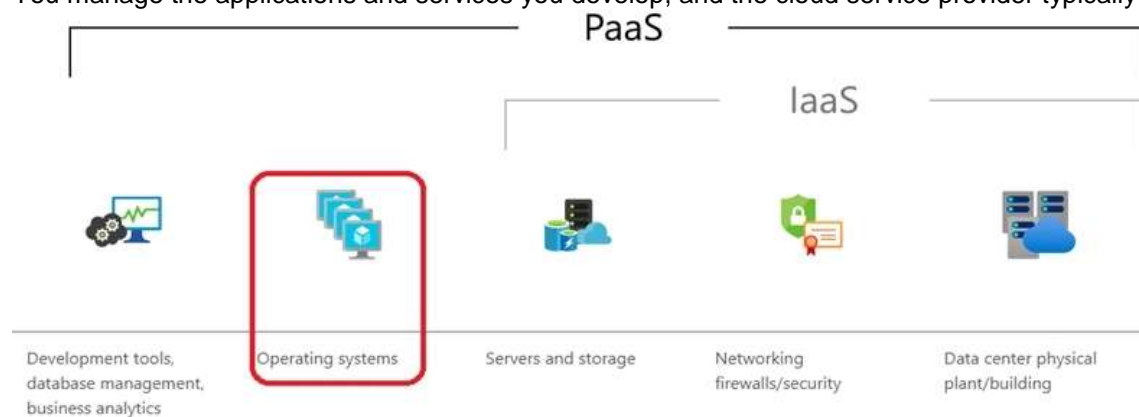| Statements	Yes	No
Platform as a service (PaaS) database offerings in Azure require less setup and configuration effort than infrastructure as a service (IaaS) database offerings.	●	O
Platform as a service (PaaS) database offerings in Azure provide administrators with the ability to control and update the operating system version.	●	O
All platform as a service (PaaS) database offerings in Azure can be paused to reduce costs.	O	●

Explanation:
Box 1: Yes
Like IaaS, PaaS includes infrastructure ?servers, storage, and networking ?but also middleware, development tools, business intelligence (BI) services, database management systems, and more. PaaS is designed to support the complete web application lifecycle: building, testing, deploying, managing, and updating.
PaaS allows you to avoid the expense and complexity of buying and managing software licenses, the underlying application infrastructure and middleware, container orchestrators such as Kubernetes, or the development tools and other resources
Box 2: Yes
You manage the applications and services you develop, and the cloud service provider typically manages everything else.

Box 3: No
There really is no way to pause / stop billing for your Azure SQL Database. Microsoft's official answer "Yes, you can export your database. Delete the Azure SQL database and that will pause billing. Then when you need it you can create a new database and import your previously exported DB."
Reference:
https://azure.microsoft.com/en-us/overview/what-is-paas
https://feedback.azure.com/forums/217321-sql-database/suggestions/6931152-please-add-ability-to-temporarily-turn-off-on-sql

QUESTION 137
Hotspot Question

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
Relational database tables contain columns and rows	○	○
Indexes in a relational database describe the data types in a table	○	○
A database view is a virtual table whose content is defined by a query	○	○

Answer:

Answer Area

Statements	Yes	No
Relational database tables contain columns and rows	●	○
Indexes in a relational database describe the data types in a table	○	●
A database view is a virtual table whose content is defined by a query	●	○

Explanation:
Box 1: Yes
Tables are database objects that contain all the data in a database. In tables, data is logically organized in a row-and-column format similar to a spreadsheet. Each row represents a unique record, and each column represents a field in the record.
Box 2: No
An index is an on-disk structure associated with a table or view that speeds retrieval of rows from the table or view.
Box 3: Yes
A view is a virtual table whose contents are defined by a query. Like a table, a view consists of a set of named columns and rows of data.
Reference:
https://docs.microsoft.com/en-us/sql/relational-databases/tables/tables
https://docs.microsoft.com/en-us/sql/relational-databases/indexes/clustered-and-nonclustered-indexes-described
https://docs.microsoft.com/en-us/sql/relational-databases/views/views?view=sql-server-ver15

QUESTION 138
Hotspot Question
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.	○	○

Answer:

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.	●	○

QUESTION 139
Hotspot Question
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.	○	○

Answer:

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.	●	○

QUESTION 140
Drag and Drop Question
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 he 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 |

Answer:

Values

| GROUP BY | ORDER BY |

Answer Area

| CREATE | SalesDate, AVG(SalesAmount) |
| FROM Sales |
| SELECT | SalesDate |

QUESTION 141
Hotspot Question
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.	○	○

Answer:

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.	◉	○

QUESTION 142
Drag and Drop Question
Match the types of visualizations to the appropriate descriptions. To answer, drag the appropriate visualization type from the column on the left to its description on the right. Each visualization type may be used once, more than once, or not at all.
NOTE: Each correct match is worth one point.

Visualizations

| Key influencer |
| Scatter |
| Treemap |

Answer Area

Visualization	A chart of colored, nested rectangles that displays individual data points represented by the size and color of a relative rectangle.
Visualization	A chart that displays the major contributors of a selected result or value.
Visualization	A chart that shows the relationship between two numerical values.

Answer:

Visualizations

Answer Area

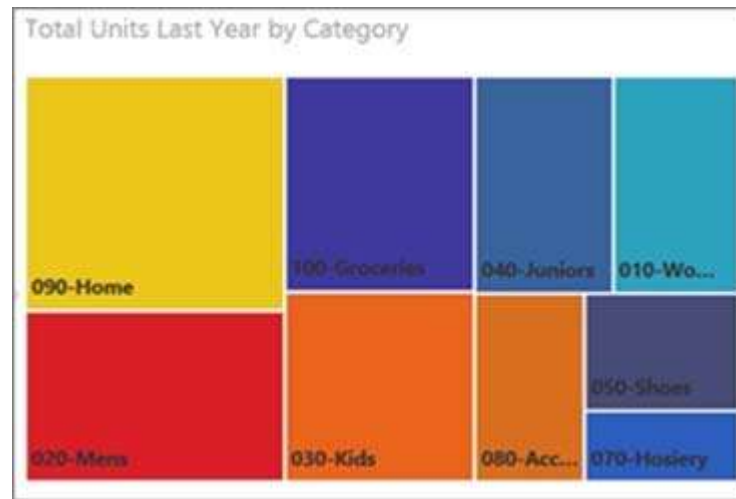| Treemap | A chart of colored, nested rectangles that displays individual data points represented by the size and color of a relative rectangle. |
| Key influencer | A chart that displays the major contributors of a selected result or value. |
| Scatter | A chart that shows the relationship between two numerical values. |

Explanation:
Box 1: Tree map
Treemaps are chart of colored rectangles, with size representing value. They can be hierarchical, with rectangles nested within the main rectangles.

Total Units Last Year by Category

Box 2: Key influencer
A key influencer chart displays the major contributors to a selected result or value Box 3: Scatter
Scatter and Bubble charts display relationships between 2 (scatter) or 3 (bubble) quantitative measures -- whether or not, in which order, etc.

QUESTION 143
Hotspot Question
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.	○	○
Partition keys are used in Azure Cosmos DB to optimize queries.	○	○
Items contained in the same Azure Cosmos DB logical partition can have different partition keys.	○	○

Answer:

Answer Area

Statements	Yes	No
The Azure Cosmos DB API is configured separately for each database in an Azure Cosmos DB account.	○	●
Partition keys are used in Azure Cosmos DB to optimize queries.	●	○
Items contained in the same Azure Cosmos DB logical partition can have different partition keys.	○	●

Explanation:
Box 1: No
The API determines the type of account to create. Azure Cosmos DB provides five APIs: Core (SQL) and MongoDB for document data, Gremlin for graph data, Azure Table, and Cassandr a. Currently, you must create a separate account for each API.
Box 2: Yes
Azure Cosmos DB uses partitioning to scale individual containers in a database to meet the performance needs of your application. In partitioning, the items in a container are divided into distinct subsets called logical partitions. Logical partitions are formed based on the value of a partition key that is associated with each item in a container.
Box 3: No
Logical partitions are formed based on the value of a partition key that is associated with each item in a container.
Reference:
https://docs.microsoft.com/en-us/azure/cosmos-db/partitioning-overview