



DP-900^{Q&As}

Microsoft Azure Data Fundamentals

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QUESTION 1

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

Correct Answer: B

Reference: <https://docs.microsoft.com/en-us/azure/azure-sql/database/authentication-mfa-ssms-overview>

QUESTION 2

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:

Yes No

A pipelines 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 pipelines is an activity.

Correct Answer:



Yes No

A pipelines 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 pipelines is an activity.

Box 1: No

A pipeline is a logical grouping of activities that together perform a task.

Box 2: Yes

You can construct pipeline hierarchies with data factory.

Box 3: Yes

A pipeline is a logical grouping of activities that together perform a task.

Reference:

<https://mrpaulandrew.com/2019/09/25/azure-data-factory-pipeline-hierarchies-generation-control/>

QUESTION 3

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

Hot 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 (COL)
as a partitioned row store by using Language-integrated Query (UNO)
as nodes and edges by using the Gremlin language

Correct Answer:

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 (COL)
as a partitioned row store by using Language-integrated Query (UNO)
as nodes and edges by using the Gremlin language

Reference: <https://www.sqlshack.com/graph-database-implementation-with-azure-cosmos-db-using-the-api/>

QUESTION 4

DRAG DROP

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. Each term may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

Index		A database object that holds data
View		A database object whose content is defined by a query
Table		A database object that helps improve the speed of data retrieval

Correct Answer:



	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

Reference:

[https://en.wikipedia.org/wiki/Table_\(database\)#:~:text=A%20table%20is%20a%20collection,table%20format%20within%20a%20database.andtext=In%20relational%20databases%2C%20and%20flat,a%20row%20and%20column%20intersect.](https://en.wikipedia.org/wiki/Table_(database)#:~:text=A%20table%20is%20a%20collection,table%20format%20within%20a%20database.andtext=In%20relational%20databases%2C%20and%20flat,a%20row%20and%20column%20intersect.)

[https://en.wikipedia.org/wiki/View_\(SQL\)](https://en.wikipedia.org/wiki/View_(SQL))

https://en.wikipedia.org/wiki/Database_index#:~:text=A%20database%20index%20is%20a,maintain%20the%20index%20data%20structure.

QUESTION 5

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

Correct Answer: C

Reference: <https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/analytical-data-stores>

QUESTION 6

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:



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.

Correct Answer:

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.

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 7

DRAG DROP

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.

Select and Place:

Graph		Application users and their default language
Object		Medical images and their associated metadata
Key/value		Employee data that shows the relationships between employees

Correct Answer:

	Key/value	Application users and their default language
	Object	Medical images and their associated metadata
	Graph	Employee data that shows the relationships between employees

Reference: <https://docs.microsoft.com/en-us/azure/architecture/guide/technology-choices/data-store-overview>

QUESTION 8

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

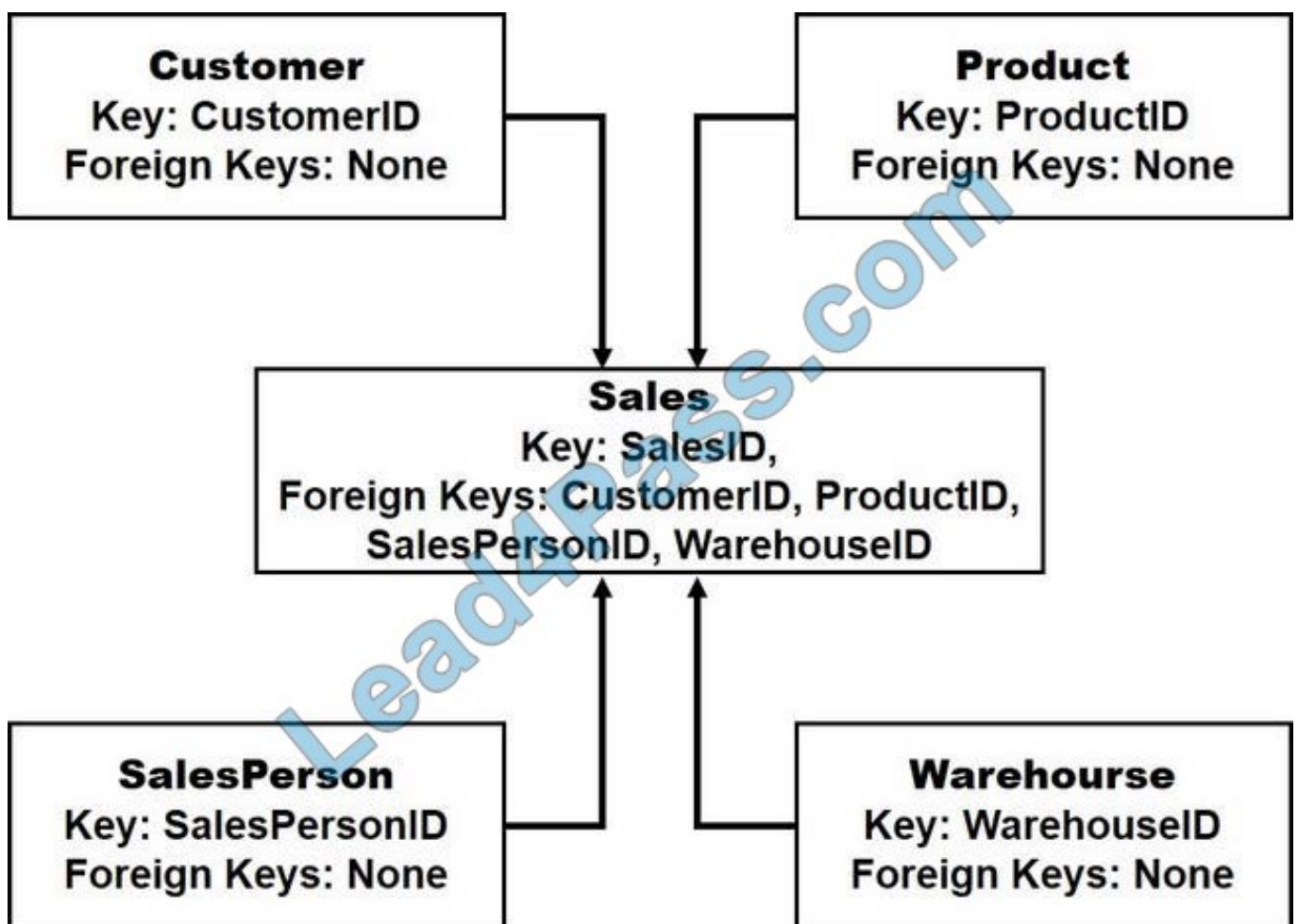


- A. Azure Cosmos DB
- B. Azure Table storage
- C. Azure Files
- D. Azure Blob Storage

Correct Answer: A

QUESTION 9

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

Hot Area:



The data model is a [answer choice]

▼
transactional model
star schema
snowflake schema

Customer is a [answer choice] table

▼
fact
dimension
bridge

Correct Answer:

The data model is a [answer choice]

▼
transactional model
star schema
snowflake schema

Customer is a [answer choice] table

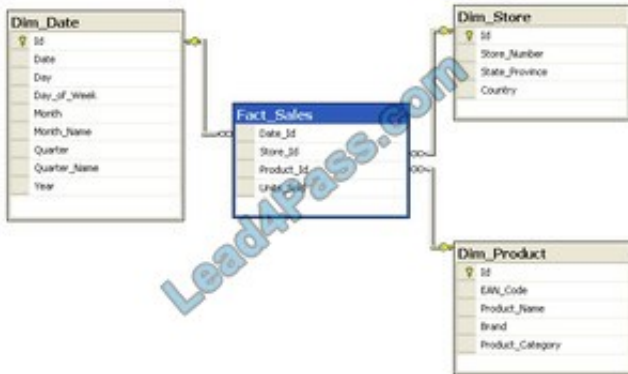
▼
fact
dimension
bridge

Box 1: star schema

In computing, the star schema is the simplest style of data mart schema and is the approach most widely used to develop data warehouses and dimensional data marts. The star schema consists of one or more fact tables referencing any

number of dimension tables. The star schema is an important special case of the snowflake schema, and is more effective for handling simpler queries.

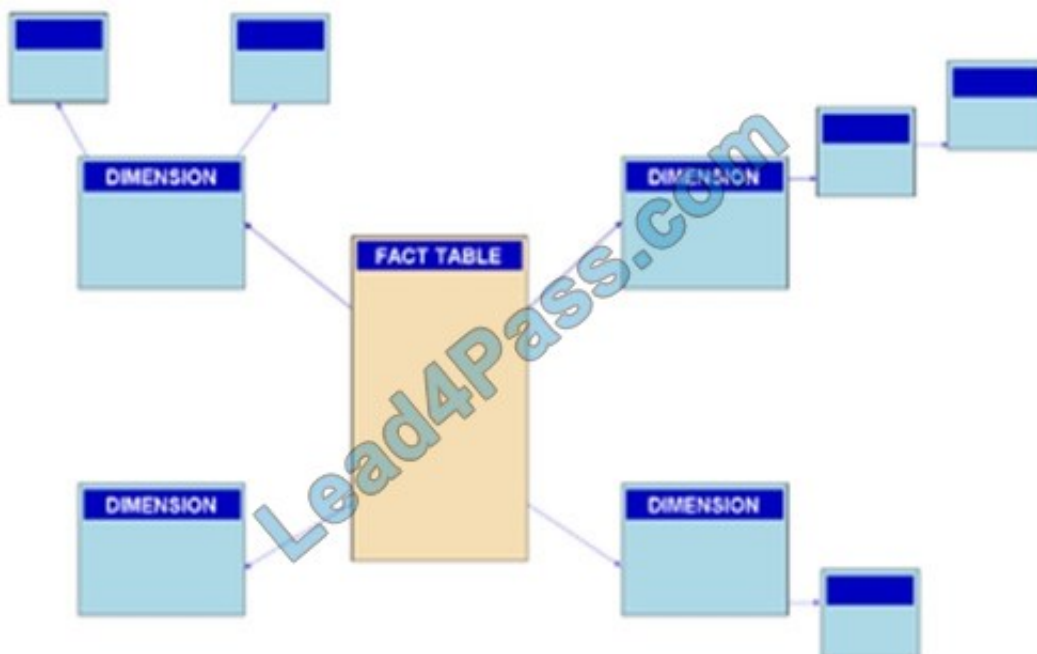
Example:



Incorrect Answers:

The data in the question is not normalized.

The snowflake schema is a variation of the star schema, featuring normalization of dimension tables. Example:



Note: A snowflake schema is a logical arrangement of tables in a multidimensional database such that the entity relationship diagram resembles a snowflake shape. The snowflake schema is represented by centralized fact tables which are

connected to multiple dimensions.[citation needed]. "Snowflaking" is a method of normalizing the dimension tables in a star schema. When it is completely normalized along all the dimension tables, the resultant structure resembles a

snowflake with the fact table in the middle.

Box 2: dimension

The star schema consists of one or more fact tables referencing any number of dimension tables.

Reference: <https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-overview> https://en.wikipedia.org/wiki/Star_schema https://en.wikipedia.org/wiki/Snowflake_schema <https://azure.microsoft.com/en-us/blog/data-models-within-azure-analysis-services-and-power-bi/>



QUESTION 10

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

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

Correct Answer: D

Reference: <https://docs.microsoft.com/en-us/azure/azure-sql/database/az-cli-script-samples-content-guide?tabs=singledatabase>

QUESTION 11

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

Correct Answer: A

Reference: <https://docs.microsoft.com/en-us/azure/architecture/guide/technology-choices/data-store-overview>

QUESTION 12

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

Hot 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)



Correct Answer:

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)

Reference: <https://docs.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-namespace>

QUESTION 13

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

Correct Answer: B



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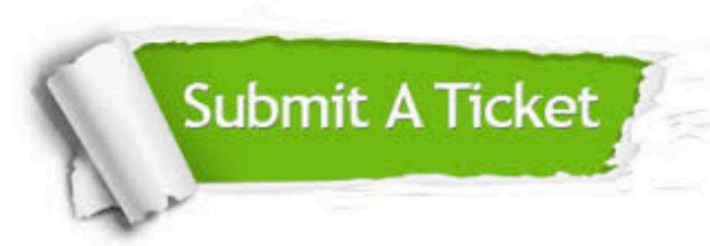
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<https://www.lead4pass.com/allproducts>

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