



Microsoft DP-900 Mock Exam

Shared by Merritt on 17-06-2026

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Question 1

Question Type: MultipleChoice

Your company needs to design a database that illustrates the relationships between utilization levels of individual network devices across a local area network.

Which type of data store should you use?

Options:

- A- graph
- B- key/value
- C- document
- D- columnar



Answer:

A

Explanation:

Data as it appears in the real world is naturally connected. Traditional data modeling focuses on defining entities separately and computing their relationships at runtime. While this model has its advantages, highly connected data can be challenging to manage under its constraints.

A graph database approach relies on persisting relationships in the storage layer instead, which leads to highly efficient graph retrieval operations. Azure Cosmos DB's Gremlin API supports the property graph model.

<https://docs.microsoft.com/en-us/azure/cosmos-db/graph-introduction#introduction-to-graph-data-bases>



Question 2

Question Type: MultipleChoice

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.

Options:

- 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:

B, C, E



Explanation:

<https://docs.microsoft.com/en-us/sql/relational-databases/security/authentication-access/getting-started-with-database-engine-permissions?view=sql-server-ver15>

Question 3

Question Type: MultipleChoice

In Azure Table storage, each row in a table must be uniquely identified by which two components?

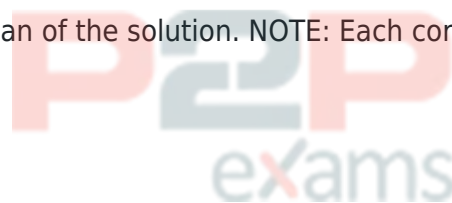
Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

Options:

- A- a timestamp
- B- a range
- C- a row key
- D- a partition key

Answer:

C, D



Question 4

Question Type: MultipleChoice

You have a banking application that transfers money in to and out of accounts.

Of which type of solution is this is an example?

Options:

- A- extract transform, and load (ETL)
- B- a data warehouse
- C- online analytical processing (OLAP)
- D- online transaction processing (OLTP)

Answer:

D

Question 5

Question Type: MultipleChoice

Which statement is an example of Data Manipulation Language (DML)?

Options:

- A- INSERT
- B- DISABLE
- C- ALTER
- D- DROP

Answer:

A

Explanation:

Data Manipulation Language (DML) statements:

DELETE

INSERT

UPDATE

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-reference-tsql-statements>

Question 6

Question Type: MultipleChoice

What is the primary purpose of a data warehouse?

Options:

- A- to provide answers to complex queries that rely on data from multiple sources
- B- to provide transformation services between source and target data stores
- C- to provide read-only storage of relational and non-relational historical data
- D- to provide storage for transactional line-of-business (LOB) applications

Answer:

C

Explanation:

Consider using a data warehouse when you need to keep historical data separate from the source transaction systems for performance reasons. Data warehouses make it easy to access historical data from multiple locations, by providing a centralized location using common formats, keys, and data models.

Query both relational and nonrelational data.

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/relational-data/data-warehousing>

Question 7

Question Type: MultipleChoice

At which level in Azure Cosmos DB can you configure multiple write regions and read regions?

Options:

- A- database
- B- partition
- C- collection
- D- account

Answer:

C



Question 8

Question Type: MultipleChoice

Which storage solution supports access control lists (ACLs) at the file and folder level?

Options:

- A- Azure Data Lake Storage
- B- Azure Cosmos DB
- C- Azure Queue storage
- D- Azure Blob storage

Answer:

A



Explanation:

Azure Data Lake Storage Gen2 implements an access control model that supports both Azure role-based access control (Azure RBAC) and POSIX-like access control lists (ACLs).

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

Question 9

Question Type: MultipleChoice

You have structured data in tabular format.

What represents an individual instance of a data entity?

Options:

- A- a column
- B- a cell
- C- a row
- D- a table

Answer:

C



Question 10

Question Type: MultipleChoice

What are two uses of data visualization? Each correct answer present a complete solution.

NOTE: Each correct selection is worth one point.

Options:

- 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:

A, B



Explanation:

Data visualization is a key component in being able to gain insight into your data. It helps make big and small data easier for humans to understand. It also makes it easier to detect patterns, trends, and outliers in groups of data.

Data visualization brings data to help you find key business insights quickly and effectively.

<https://docs.microsoft.com/en-us/azure/synapse-analytics/spark/apache-spark-data-visualization>



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