


🎉 **Congratulations! You passed!**

Grade received 87.50% To pass 80% or higher

Go to next item

📘 **You're viewing this assessment in its original language**
You can switch back to view this content in your preferred translation if you'd prefer. You won't lose any progress if you change languages. [Show Vietnamese version](#) 

1. True or False?

0 / 1 point

In a relational database system, you store the information for entities in collections or containers.

- ☒ True
☐ False

❌ **Incorrect**
In a relational system, you store the information for entities in relational tables.

2. Which of the following is true when implementing non-relational databases?

1 / 1 point

- ☒ Non-relational databases are either schema-free or have relaxed schemas.
☐ Non-relational databases require data normalization techniques to reduce data duplication.
☐ Non-relational databases contain tables with fixed-column records.

✅ **Correct**
Each entity in a non-relational database only has the fields it needs, and these fields can vary between different entities.

3. Non-relational data generally falls into which two categories. Which of the following are categories of non-relational data?

1 / 1 point

Select all options that apply.

- ☐ Structured
☒ Non-Structured

✅ **Correct**
Non-relational data generally falls into two categories; semi-structured and non-structured.

- ☒ Semi-Structured

✅ **Correct**
Non-relational data generally falls into two categories; semi-structured and non-structured.

4. True or False?

1 / 1 point

The term JSON stands for JavaScript Object Notation.

- ☒ True
☐ False

✅ **Correct**
The term JSON stands for JavaScript Object Notation; it's the format used by JavaScript applications to store data in memory but can also be used to read and write documents to and from files.

5. Which of the following are examples of unstructured data?

1 / 1 point

Select all options that apply.

- ☒ Video

✅ **Correct**
Unstructured data is data that doesn't naturally contain fields. Examples include video, audio, and other media streams.

- ☒ Messaging

✅ **Correct**
Unstructured data is data that doesn't naturally contain fields. Examples include video, audio, and

other media streams.

☐ Point-of-Sale Data

☒ Audio

✔ **Correct**

Unstructured data is data that doesn't naturally contain fields. Examples include video, audio, and other media streams.

6. A key-value store is a type of NoSQL database for inserting and querying data. Each data item in a key-value store has two elements, a key, and a value.

1 / 1 point

Which of the following statements is correct?

☒ The key uniquely identifies the item, and the value holds the data for the item.

☐ The key holds the data for the item and the value uniquely identifies the item.

✔ **Correct**

In a key-value store the key uniquely identifies the item, and the value holds the data for the item.

7. Graph databases enable you to store entities, but the main focus is on the relationships that these entities have with each other.

1 / 1 point

Which of the following statements is true of graph databases?

☐ Edges are similar to instances of entities, and Nodes specify the relationships between the Edges.

☒ Nodes are similar to instances of entities. Edges specify the relationships between the Nodes.

✔ **Correct**

A graph database stores two types of information: nodes that you can think of as instances of entities, and edges, which specify the relationships between nodes.

Nodes and edges can both have properties that provide information about that node or edge (like columns in a table).

Additionally, edges can have a direction indicating the nature of the relationship.

8. Which of the following services should you deploy if you need to implement a non-relational database?

1 / 1 point

☐ The Gremlin API

☐ Azure SQL Database

☒ Azure Cosmos DB

✔ **Correct**

That's correct. Cosmos DB supports several common models of non-relational databases, include key-value stores, graph databases, document databases, and column-family stores.