✓ 200 XP ▶
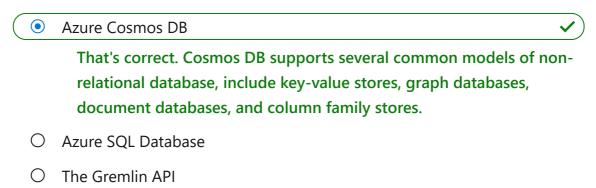
Knowledge check

1 minute

Choose the best response for each of the questions below. Then select **Check your answers**.

Check your knowledge

1. Which of the following services should you use to implement a non-relational database?

◉ Azure Cosmos DB ✓

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

○ Azure SQL Database

○ The Gremlin API

2. Which of the following is a characteristic of non-relational databases?

○ Non-relational databases contain tables with flat fixed-column records

○ Non-relational databases require you to use data normalization techniques to reduce data duplication

◉ Non-relational databases are either schema free or have relaxed schemas ✓

> **That's correct. Each entity in a non-relational database only has the fields it needs, and these fields can vary between different entities.**

3. You are building a system that monitors the temperature throughout a set of office blocks, and sets the air conditioning in each room in each block to maintain a pleasant ambient temperature. Your system has to manage the air conditioning in several thousand buildings spread across the country or region, and each building typically contains at least 100 air-conditioned rooms. What type of NoSQL data store is most appropriate for capturing the temperature data to enable it to be processed quickly?

◉ A key-value store ✓

That's correct. A key-value store can ingest large volumes of data rapidly. A thermometer in each room can send the data to the database.

○   A column family database

○   Write the temperatures to a blob in Azure Blob storage

Next unit: Summary

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