

Your grade: 100%

Your latest: 100% • Your highest: 100% • To pass you need at least 75%. We keep your highest score.

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1. Which industry will almost exclusively use ACID databases?

1 / 1 point

- ☐ Online social networks
- ☐ E-commerce
- ☐ Marketing consultants
- ☒ Financial institutions



Correct

Correct! Financial institutions will almost exclusively use ACID databases for money transfers because these operations depend on the atomic nature of ACID transactions.

2. What is data sharding?

1 / 1 point

- ☐ Replication of data across multiple nodes
- ☒ Partitioning the data
- ☐ Retrieval of data from a failed node
- ☐ Deletion of all data and schema



Correct

Correct! This process breaks data into partitions for storage in a distributed system.

3. How many characteristics of the CAP theorem can a distributed system guarantee?

1 / 1 point

- ☐ None
- ☐ One
- ☒ Two
- ☐ Three



Correct

Correct! A distributed system can guarantee delivery of only two of the three characteristics necessary for the successful design, implementation, and deployment of applications.

4. What drives the design of a data model in NoSQL?

1 / 1 point

- ☐ The choice between availability and consistency
- ☒ Your queries and the way the app accesses the data
- ☐ How the data is stored in one or more tables
- ☐ How the data is denormalized



Correct

Correct! In NoSQL, the way your application accesses the data for the queries you are going to make is the driver. Models should be based on how the app interacts with the data rather than how the model can be stored as rows in one or more tables.