

1. Which industry will almost exclusively use ACID databases?

1 / 1 point

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



**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

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



**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

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



**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.