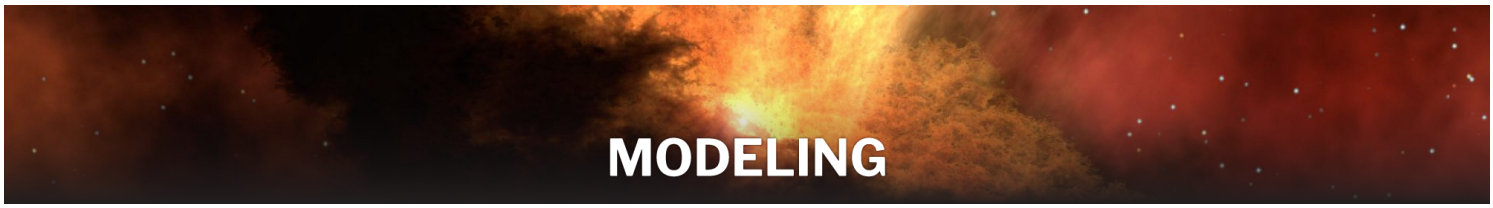
Check yourself - Data modeling

Due Apr 3 at 11:59pm **Points** 6 **Questions** 6 **Time Limit** None
Allowed Attempts 2

Instructions



Use this quiz to test your understanding of the concepts of this week's module.

Attempt History

	Attempt	Time	Score
KEPT	Attempt 2	2 minutes	6 out of 6
LATEST	Attempt 2	2 minutes	6 out of 6
	Attempt 1	15 minutes	4.5 out of 6

Score for this attempt: **6** out of 6
Submitted Mar 27 at 9:27am
This attempt took 2 minutes.

Question 1 — 1 / 1 pts

How were the tables in the IFRI MySQL database linked?

Correct!

- (●) Via a column called “foreign key”
- ( ) Via an index row
- ( ) Via a group of columns that provided sites’ names

Question 2

1 / 1 pts

Match query constraints to strategies of storing data about the Kitoba site in a Redis database:

Correct!

CANNOT query for values of various attributes — All values are stored t

Correct!

CAN query for values of various attributes — Data is split into comp

Other Incorrect Match Options:

- Data is organized into column families with a key

Question 3

1 / 1 pts

Select the correct characteristics of MongoDB as a data store:

MongoDB is a [Select] software. It belongs to the [Select] type of noSQL data stores and has an internal structure based on [Select]. It [Select] support nested data structures, and subdocument queries are [Select] to implement.

Answer 1:

Correct!

open source

Answer 2:

Correct!

document-oriented

Answer 3:

Correct! BSON

Answer 4:

Correct! does

Answer 5:

Correct! hard

Question 4

1 / 1 pts

Match names of data structures in Cassandra to their definitions:

Correct! **List** — An ordered collection

Correct! **Set** — An unordered unique

Correct! **Map** — A name and a pair of

Other Incorrect Match Options:

- A collection of items grouped into categories
- A collection of numerical values

Question 5

1 / 1 pts

Why did Stonebreaker recommend using main memory databases whenever possible? Select all that apply:

Correct!

- [x] In-memory database can be configured to access all memory of the cluster
- [ ] Main memory is cheap compared to disk memory

Correct!

- [x] A noSQL data store will not outperform traditional relational databases unless CPU overhead is minimized
- [ ] In-memory databases are more fault tolerant than disk-based databases

Correct!

- [x] Setting and releasing database locks using the CPU creates a significant overhead

Question 6

1 / 1 pts

What characteristics describe HBase data model? (Select all that apply)

- [ ] Good for event streaming

Correct!

- [x] Highly scalable
- [ ] Relational

Correct!

- [x] Designed for sparse datasets

Correct!

- [x] Colulmn-oriented

Quiz Score: **6** out of 6