Question 1

Consider the scenario where customer session data is managed by the eCommerce system. It has the following requirements:

- faster read and write
- need not be durable and
- need to maintain session data for millions of online customers

Which category of databases is the best suitable one?

- (●) Key-value
- ( ) Document-oriented
- ( ) Column-family
- ( ) Graph-based
- ( ) Relational model

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Question 2

Which one of the following is Not a valid NoSQL database category?

- Column family stores
- Graph based databases
- Document oriented databases
- Tree based structures
- Key value stores

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Question 3

Cassandra NoSQL database provides

- (●) high availability and partition tolerance but is not strictly consistent
- ( ) strong consistency and partition tolerance but not high availability
- ( ) strong consistency and high availability but not partition tolerance
- ( ) strong consistency, high availability and partition tolerance

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Question 4

Map the following scenarios to the best suited database type.

A) Log Analysis B) Catalog Display C) Banking Transaction D) User preferences E) Shortest path for product delivery	1. Document-oriented 2. Key-value 3. Column-family 4. Graph-based 5. Relational model

- A-3, B-1, C-5, D-2, E-4
- A-1, B-2, C-3, D-4, E-5
- A-1, B-3, C-4, D-5, E-2
- A-2, B-3, C-1, D-5, E-4

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Question 5

HBase belongs to which category of NoSQL databases?

- ○ Key value stores
- ◉ Column family stores
- ○ Graph based databases
- ○ Document oriented databases

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Question 6

Which of the following does not apply to NoSQL?

- (•) Less scalable
- ( ) Document oriented
- ( ) Cross-platform
- ( ) High performance

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Question 7

The eCommerce system tracks its customer's browsing patterns. For the given scenario, select the best suited data model, consistency leve and read/write load.

- ○ Graph, Available, Write-heavy
- ○ Key-value, Consistent, Read-heavy
- ○ Graph, Consistent, Read-heavy
- ◉ Column-family, Available, Read-heavy

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Question 8

Which category of NoSQL databases possess the following characteristics?

- Support a nested structure
- Support querying by multiple fields
- Support indexing on multiple fields
- Support sorting operations

- ○ Key value stores
- ○ Column family stores
- ○ Graph based databases
- ◉ Document oriented databases

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Question 9

Assume the shopping cart scenario in an online shopping site. Which of the CAP properties does this require the most?

- Consistency and Availability
- Availability and Partition tolerance
- Consistency and Partition tolerance
- Consistency, Availability and Partition tolerance

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Question 10

"An application usually retrieves data by key or ID value and there is no need for complex queries. Further, there is no need for search capabilities beyond key lookup"
Which type of the following NoSQL databases is best suited for the above case?

- ◯ Graph based databases
- ◉ Key value stores
- ◯ Document oriented databases
- ◯ Column family stores

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Question 11

What is incorrect with respect to characteristics of NoSQL databases?

- NoSQL databases natively and automatically spread data across the servers
- NoSQL databases have a distributed scale out architecture
- Handles large volume of structured, unstructured and semi-structured data
- Most of the NoSQL databases do not have integrated caching facilities

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Question 12

Which database is most suitable for representing financial details related to policy holders?

- Key value stores
- Document oriented databases
- Relational databases
- Graph based databases
- Column family stores

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Question 13

Which of the following databases is suitable for sparsely populated tables that are too big for relational database and also related data is grouped together?

- Key value stores
- Graph based databases
- Column family stores
- Document oriented databases

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Question 14

Which of the following databases is used for internet scale applications requiring large data sets, cost effective storage, and fast time to solution?

- Key value stores
- Document oriented databases
- Graph based databases
- Column family stores
- Relational model

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