## Your grade: 66.66%

Your latest: **66.66**% • Your highest: **66.66**% • To pass you need at least 70%. We keep your highest score.

Try again

1.	Which requirement would prompt you to consider choosing NoSQL over RDBMS?	1 / 1 point
	Flexible schema	
	O Complicated joins	
	O Full data consistency	
	Multi-document transactions	
	Correct! If your data is unstructured and could benefit from a flexible schema, then a NoSQL database will make more sense.	
2.	What is one way that a distributed NoSQL database usually shards data?	0 / 1 point
	By grouping all records that have the same key on the same server	
	By grouping all records that have the same data on the same server	
	By distributing all records that share the same key across multiple servers	
	O By grouping all keys numerically	
3.	In the BASE model what does it mean for data to be in a "soft state"?	0 / 1 point
	The data store values availability over consistency.	
	The data store is accessible at all times.	
	O Different replicas do not need to be mutually consistent all the time.	
	The availability of data is ensured by partitioning it.	
	National Incorrect Incorrect. Review the ACID versus BASE Operations video.	
4.	Which of the following makes NoSQL databases most appropriate for use with cloud computing?	1/1 point
	They support complex queries.	
	They are denormalized.	
	They have intuitive data structures.	
	Their distributed nature makes them easily deployed and operated on clusters of servers.	
	<ul> <li>Correct</li> <li>Correct! The distributed data nature of NoSQL databases means that they can be deployed and operated on clusters of servers in cloud architectures, thereby massively reducing cost."</li> </ul>	
5.	Which term refers to offloading of database administration and maintenance from the end user?	1/1 point
	Database as a Service	
	O Software as a Service	
	O NoSQL as a Service	
	Administration as a Service	
	Correct  Correct! A fully managed service model, otherwise called database as a service (or DBaaS), offloads the administration and maintenance from the end-user and allows developers to focus on building applications with these modern databases.	

Smerge Scount Sproject  Correct Correct! The "Smerge" aggregation stage takes the outcome from the previous stage and stores it in a target collection?  In MongoDB, which of the following common aggregation stages takes the outcome from the previous stage and stores it in a target collection.	1/1 point
<ul> <li>7. Select the statement that describes how MongoDB manages rapidly changing schemas.</li> <li>MongoDB uses both a fixed schema and an updatable schema.</li> <li>MongoDB utilizes an evolving schema.</li> <li>MongoDB uses a fixed schema.</li> <li>MongoDB requires multiple processes for managing rapidly changing schema.</li> </ul>	1/1 point
<ul> <li>Correct Correct! MongoDB utilizes an evolving schema.</li> <li>8. Which Python data structure is most similar to a document?  <ul> <li>A tuple</li> <li>A string</li> <li>An object</li> </ul> </li> <li>A dictionary</li> </ul>	1/1 point
<ul> <li>Correct         Correct! Documents are associative arrays like JSON objects or Python dictionaries.</li> <li>Select the true statement regarding MongoDB indexes.         <ul> <li>Indexes are stored in random order.</li> <li>Indexes are stored in a table.</li> <li>Indexes include the database fields.</li> <li>Indexes ignore and do not contain information about a document's disk location.</li> </ul> </li> </ul>	0 / 1 point
Incorrect Incorrect. Review the Indexes video.  10. What is the primary purpose of replication?  It prevents you from accidentally deleting data.  If one server fails, you still have multiple copies of the data present.  It allows you to partition large data sets.	1/1 point
<ul> <li>It increases throughput by directing queries to relevant partitions.</li> <li>✓ Correct         Correct! It provides you with a highly available database during failures or during periods of planned maintenance.</li> <li>11. What are the three data types in a collection?         <ul> <li>Lists, Dictionaries, and Arrays</li> <li>Blobs, Bigints, and ASCII</li> <li>Lists, Maps, and Sets</li> <li>Built-in, User-defined, and Lists</li> </ul> </li> </ul>	1/1 point

<ul> <li>Use Lightweight Transactions.</li> <li>Use UPDATE data with the full primary key specified.</li> <li>Use UPDATE data with Time-To-Live.</li> <li>Ocorrect</li> <li>Correct Too use instruct Cassandra to look for the data, read it, and only then perform a given operation by using Lightweight Transactions, but Lightweight Transactions are slower than the normal INSERT/UPDATE in Cassandra.</li> <li>Which features set Cassandra Apache apart from other NoSQL databases?</li> <li>Primary/secondary architecture and fast write throughput</li> <li>Simple peer-to-peer architecture and scalability</li> <li>Primary/secondary architecture and state consistency</li> <li>Simple peer-to-peer architecture and state write throughput</li> <li>Incorrect</li> <li>Incorrect. Review the Overview of Cassandra video.</li> <li>What are the two primary functions of a "partition key"? Select two.</li> <li>It determines the location of the data in a cluster.</li> <li>Correct</li> <li>The primary key helps to optimize read queries.</li> <li>It adds uniqueness to each entry in a table.</li> <li>It specifies the order in which the data is arranged inside the partition.</li> </ul>			
Use UPDATE data with the full primary key specified.  Use UPDATE data with Time-To-Live.  Use INSERT data with Time-To-Live.  Oserneet.  Oserne	12.	Which of these four approaches is the slowest way to make data changes in Apache Cassandra?	1/1 point
Use UPDATE data with Time-To-Line.  Use INSERT data with Time-To-Line.  Oursett Cornect Tow can instruct Cassandra to look for the data, read it, and only then perform a given operation by using Lightweight Transactions, but Lightweight Transactions are slower than the normal INSERT/UPDATE in Cassandra.  13. Which features set Cassandra Apache apart from other NoSQL databases?  Primary/secondary architecture and fast with throughput  Simple peer-to-peer architecture and scalability Primary/secondary architecture and scalability Simple peer-to-peer architecture and scalability Simple peer-to-peer architecture and scalability Resource Towns and State Write throughput  It determines the two primary functions of a "partition key"? select two.  It what are the two primary functions of a "partition key"? select two.  It determines the location of the data in a cluster.  Cornect Cornect I partition key determines the data locality in a cluster.  It adds uniqueness to each entry in a table.  It specifies the order in which the data is arranged inside the partition.  15. What do you need to start data distribution in Cassandra?  Queries  Data sets Toleres  A key value bash  Wincornect  A key value bash  Wincornect		Use Lightweight Transactions.	
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○ A key value hash  ⊗ Incorrect			
⊗ Incorrect		Tokens	
		O A key value hash	

**⊘** Correct

 ${\tt Correct!\ Within\ the\ collection\ data\ types\ category, there\ are\ three\ data\ types: lists, maps, and\ sets.}$