Keep Learning

grade 100%

NOSQL Systems

TOTAL POINTS 10			
1.	What is the main challenge of the traditional relational databases? Managing large amounts of structured data Managing of semi-structured and unstructured data	1/1 point	
	✓ Correct Well done! Yes, relational databases cannot manage semi-structured and unstructured data. In the case of huge amounts of structured data, we will see that there are options, even with relational databases.		
2.	NoSQL databases differ from relational databases in three main areas: data structure, data models and development model. True False	1/1 point	
	✓ Correct Right! A NoSQL Database management does not need to define a schema before to store data, NoSQL database can manage unstructured data, NoSQL databases are open source, a relational database does not support these three features.		
3.	No SQL Technology is A new generation of databases that are relational, distributed, open source, schemaless and horizontally scalable A new generation of databases that are non-relational, distributed, open source, schemaless and vertically scalable	1/1 point	
	Correct Yesl, the NoSQL databases are non-relational, they do not need a predefined schema and if they experience some growth, it is possible to add nodes to a distributed system in such a way that it provides processing and storage economically		
4.	The Benefits of NoSQL are High performance, horizontal scaling, flexible and simple storage mechanism Atomicity, consistency, isolation and durability	1/1 point	
	Correct The benefits of NoSQL are that they provide a better performance than non-transactional relational databases, can add more nodes to the distributed system and they do not need a predefined structure of data because of their simple storage mechanism.		
5.	The disadvantages of NoSQL are that they do not have a standardized query language, they do not full support ACID properties, and in order to provide integrity extra programming must be required. True False	1/1 point	
	✓ Correct		

	Yes! Remember the BASE properties and the CAP theorem.	
6.	The CAP Theorem means that	1/1 point
	 A NoSQL database can support two of consistency, availability or partition tolerance 	
	NoSQL supports high performance, horizontal scaling, flexible and simple storage mechanism.	
	✓ Correct	
	Yes actually, NoSQL databases conform to the CAP theorem, which means that they can support two of consistency, availability or partition tolerance.	
7.	The BASE properties of NoSQL mean that an application works and data is consistent all the time.	1/1 point
	○ True	
	False	
	✓ Correct	
	Yes! The BASE properties of NoSQL mean that an application works basically all the time, it does not have to be consistent all the time but it will eventually reach a known state.	
8.	The most common NoSQL databases support video, music, documents and text, altogether	1/1 point
	False	
	○ True	
	✓ Correct	
	Nowadays, the most common NoSQL databases support key-value, column oriented, document oriented or graph, one or two of them, but not all.	
9.	MongoDB is a graph database	1 / 1 point
	False	
	○ True	
	✓ Correct	
	Yes! Actually, MongoDB is a document database	
10.	. Neo4i is a columnar database	1/1 point

FalseTrue

✓ Correct
Yes!, actually, Neo4j is a graph database.