

✓ Congratulations! You passed!

TO PASS 80% or higher



grade 100%

Data Models Quiz

LATEST SUBMISSION GRADE 100%		
1. What is a possible pitfall of utilizing Excel does not allow algorithms for Excel is a user program and thus of Excel does not enforce many principles of relational data mode.	cannot run on a server.	1/1 point
✓ Correct For more information about the	he following concept, please view <u>here</u> .	
2. What does the term "atomic" mean in A tuple that cannot be reduced. One unit of information that cannot be fixed schema of a particular data. A column or row of data. Depends	not be decomposed. base.	1/1 point
✓ Correct For more information about the content of the	he following concept, please view <u>here</u> .	
Find the shortest path from source	es going through specific nodes given by the user.	1/1 point
✓ Correct For more information about the content of the	he following concept, please view <u>here</u> .	
community.	teger constant K around a specific node. All K+1 nodes belong in another ions between nodes in a community and a few connections across communities. within the same vicinity.	1/1 point
✓ Correct For more information about the	he following concept, please view <u>here</u> .	
	and JSON can be represented as trees. as tree-like structure is apparent with tags. While JSON does not contain a tree-	1/1 point

 $\bigcirc \hspace{0.1in} \textbf{Trees take advantage of the parent-child relationship of the data for easy navigation.}$

For more information about the following concept, please view <u>here</u>.

✓ Correct

6.	What is the general purpose of modeling data as vectors? The ability to normalize vectors allowing probability distributions.	1 / 1 point
(Enables image searching. Enables weighting of the query.	
	Results can be ordered by similarity using vector projection.	
	For more information about the following concept, please view <u>here</u> .	
7.	For the following questions 7, 8, and 9, suppose a registration website creates data with the following fields for each person registered (note: if the user does not input a value, NULL is stored instead): Name, Date, Address, and Account Number.	1/1 point
(Suppose we collect data month by month. Each month, we would have a batch of data containing the fields listed above. At the end of the year, we want to summarize our registrant activities for the entire year, so we would remove redundancies in our data by removing any records with duplicate account numbers from month to month. What type of operation do we use in this scenario?	
	JoinUnion	
	Not an Operation Subsetting	
	✓ Correct For more information about the following concept, please view here .	
8.	From the information given in question 7, what are the constraints, if any, which we have placed on the Account Number field for the end of year collection?	1 / 1 point
	Account Number should be unique.	
(Account should have at most n digits.	
	If we had n duplicate Account Numbers then we will remove n-1 duplicate fields. There are no constraints.	
	✓ correct For more information about the following concept, please view <u>here</u> .	
th	Suppose 100 people signup for our system and of the 100 people, 60 of them did not input an address. The system lists the values as NULL for these empty entries in the address field. Would this situation still have structure for our data?	1/1 point
	Yes the data has structure because we have placed a structural constraint on the data, thus the data will always have the originally defined structure.	
	No because the majority of data do not have a specific field filled, thus our originally defined structure is lost.	
	 Correct For more information about the following concept, please view <u>here</u>. 	