

✓ Congratulations! You passed!

TO PASS 75% or higher

Keep Learning

grade 100%

Big Data

LATEST SUBMISSION GRADE

1 (JU%	
1.	Suppose you want to store a petabyte of data, and you want to run a report that requires reading and processing 250 terabytes of that data. What is a key difference in the technology you'll use for this, versus a need to store and process one or two megabytes of data.	1 / 1 point
	Cloud storage	
	Cost	
	Distributed storage and processing	
	Extremely powerful computer processors	
	Correct Correct Correct. The solutions built today to store and process big data usually involve the use of many computer CPUs and many storage disks, perhaps counting into the thousands. This is true whether the data store and processing are handled locally or in the cloud. So, it is the nature of big data systems that the processing is necessarily handled not by one monolithic program that does all the work, but by a collection of computers that collectively do the data processing work.	
2.	The following are records in a contact list.	1/1 point
	{'name';'Étienne', 'email';'etienne@example.com', 'mobile';'555-8372'}	
	{'name';'Brayden', 'home';'555-2202', 'work';'555-2800'}	
	{'name';'Diana', 'mobile';'555-6575', 'email';'dprince@example.com'}	
	Is this contact list an example of structured, semi-structured, or unstructured data?	
	Structured	
	● Semi-structured	
	Unstructured	
	Correct Correct. These records don't always have the same information, and even when they do, the information isn't in the same order. There is some structure here, but not as much as we would expect from a structured table.	
3.	Is an online credit card or bank account statement an example of structured, semi-structured, or unstructured data?	1/1 point
	Structured	
	Semi-structured	
	Unstructured	
	O statistical co	
	✓ Correct	
	Correct. Such a statement will have specific kinds of information for each record, such as a transaction date,	
	identification number, amount, and name of the other person or institution involved.	
4.	You plan to gather data from various sources. Which of the following sources do you think will definitely give you structured data?	1/1 point
	A set of XML documents delivered from a public data source	
	A survey in which every question is a rating from 1 to 5	
	Correct Correct. This would most likely be structured data, with verified data in structured fields.	
	✓ Tables you canture from another relational database system	
	▼ Tables you capture from another relational database system	

	✓ Correct Correct. A table in an RDBMS will be structured.						
	A news article downloaded from the web						
	A news article downloaded from the web						
	A CSV (comma separated value) file taken from a spreadsheet						
	A collection of photographs taken with a smartphone						
5.	Which of the foll	owing describe a reason why RDBMSs are	e a poor choice for big data? C	heck all that apply	<i>.</i> . (
	The structured nature of RDBMSs imposes costs in terms of storage and processing, which becomes prohibitive with really big amounts of data.						
	Correct Correct. The cost per terabyte of data in an RDBMS can be 10 or even 100 times as much as the cost for data in a simple file store. Big data systems can work with and take advantage of these simple file storage systems.						
		orge amount of unstructured data would for working with such data.	need to be stored as a BLOB o	r CLOB, RDBMSs	provide little to		
	Correct Correct. SQL provides very little means to search, sort, or calculate information from BLOB or CLOB data types, so large unstructured data would be virtually useless in an RDBMS system.						
	Because RDBMSs verify data on write, each row must be INSERTed separately, which is prohibitive when you have millions of rows						
6.	Look at the follo	wing data:					
	id	name	grade_level	gpa	age		
	id 930	name Olufunmilayo Ayton	grade_level	gpa 4.00	age		
	930 667		11 10	4.00 2.53			
	930 667 907	Olufunmilayo Ayton Vincent Michaelson Asa Quigg	11 10 10	4.00 2.53 3.57	16 15		
	930 667 907 168	Olufunmilayo Ayton Vincent Michaelson Asa Quigg Kiran Patil	11 10 10 11	4.00 2.53 3.57 3.28	16 15		
	930 667 907 168 Now imagine the following question What is the What are the	Olufunmilayo Ayton Vincent Michaelson Asa Quigg Kiran Patil it, instead of four rows, you have 4000 roons can you answer from this data? Chechighest allowable value of age? e names of all the students at the same g	11 10 10 11 ws, and all are similar to the rek all that apply.	4.00 2.53 3.57 3.28 ows you see here.	16 15 17 Which of the		
	930 667 907 168 Now imagine the following question What is the What are the correct correct grade_lo	Olufunmilayo Ayton Vincent Michaelson Asa Quigg Kiran Patil at, instead of four rows, you have 4000 roons can you answer from this data? Chechighest allowable value of age? e names of all the students at the same go	11 10 10 11 ws, and all are similar to the rek all that apply.	4.00 2.53 3.57 3.28 ows you see here.	16 15 17 Which of the		
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	930 667 907 168 Now imagine the following question What is the What are the Correct Correct. grade_lo	Olufunmilayo Ayton Vincent Michaelson Asa Quigg Kiran Patil at, instead of four rows, you have 4000 roons can you answer from this data? Chechighest allowable value of age? e names of all the students at the same g A query could first find the grade_level of evel value. home address of a student with id '930'?	11 10 10 11 ws, and all are similar to the rek all that apply. grade level as Kiran Patil?	4.00 2.53 3.57 3.28 ows you see here.	16 15 17 Which of the		
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	930 667 907 168 Now imagine the following question What is the What are the Correct What is the What is the What is the What is the Correct What is the	Olufunmilayo Ayton Vincent Michaelson Asa Quigg Kiran Patil It, instead of four rows, you have 4000 roons can you answer from this data? Chechighest allowable value of age? e names of all the students at the same go A query could first find the grade_level of evel value. home address of a student with id '930'? humber of students in the table? This would simply be a count of the num	11 10 10 11 ws, and all are similar to the rek all that apply. rade level as Kiran Patil? of 'Kiran Patil' and then find all	4.00 2.53 3.57 3.28 ows you see here.	16 15 17 Which of the		
7.	930 667 907 168 Now imagine that following question What is the What are the Correct grade_lo What is the What is the What is the Correct	Olufunmilayo Ayton Vincent Michaelson Asa Quigg Kiran Patil at, instead of four rows, you have 4000 roins can you answer from this data? Checkinghest allowable value of age? e names of all the students at the same go and a query could first find the grade_level of a query could first find the grade_level of a student with id '930'? This would simply be a count of the numbumber of students in each grade level?	11 10 10 11 ws, and all are similar to the rek all that apply. rade level as Kiran Patil? of 'Kiran Patil' and then find all liber of rows.	4.00 2.53 3.57 3.28 ows you see here.	16 15 17 Which of the		

{'shop':'Dicey', 'game':'Monopoly', 'qty':7, 'aisle':3, 'price':17.99}
{'shop':'Dicey', 'game':'Clue', 'qty':3, 'price':9.99}
{'shop':'Board Em', 'game':'Monopoly', 'qty':11, 'aisle':2, 'price':25.00}
{'shop':'Board Em', 'game':'Candy Land', 'qty':4, 'aisle':2}
{'shop':'Board Em', 'game':'Risk', 'qty':7, 'aisle':3, 'price':35.00}
{'shop':'Board Em', 'game':'Stratego', 'qty':'low stock'}

Which of the following questions can you definitely answer from this data? (Hint: Take note of missing values and inconsistent data types, which would make the answers unknown or uncertain.)
Which shop has a higher average price for its games?
What is the price of Risk at the Board Em shop?
✓ Correct Correct. This data is provided.
What is the average quantity of all the games in all the stores?
Which games are in aisle 3 at the Dicey shop?
What are the games that start with the letter C?
Correct Correct. You can use the game field to find games that start with a particular letter.
Which of the following questions could be answered quickly and easily by treating the complete plays of Shakespeare as data, separated by title and type (tragedy, comedy, or history)? Check two answers.
☐ How many people are mentioned or appear in the plays?
How many plays are histories?
Correct Correct. Since they are separated by type, the actual contents of the plays do not need to be analyzed to answer this question.
Which of the plays are considered the most important?
Which of the tragedies includes, or mentions, someone named Lucilius?
✓ Correct Correct. Searching just the tragedies for 'Lucilius' will produce this information.