Learning / BigData\$ Id	oT / Chapter 3: Data Analysis / Chapter 3 Quiz
BigData\$ Id	рΤ
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	17 mins 54 secs
	32.00/32.00 100.00 out of 100.00
o	
Question 1	
Correct	
Mark 2.00 out of 2.00	
What is a measurem	nent of central tendency that is also known as the average?
Select one:	
mode	
	•
mean	
median	
O Person r	
	mon measures of central tendency: mean, median, and mode. Each expresses the values that a variable has that is closest to on of a data set. The mean is also known as the average, which is the sum of all data divided by the number of values in the data
Which term is used t	to describe the right and left ends of a distribution graph?
Select one:	
o tail	✓
end	
peak	
axis	
Refer to curriculum t	
	ve, the right and left ends of the graphed curve are known as the tails.
The correct answer i	S. TAII

Question 3	
Correct	
Mark 2.00 out of 2.00	
What is a purpose of using the head Linux command?	
Select one:	
to determine the size of the file	
to display the permissions on the file	
to verify that the file is available and preview the first few lines	
to determine whether the file contains enough code to be executable	
Refer to curriculum topic: 3.1.4	
The head Linux command reads the first few lines of a file and writes them to the standard output (by default, the display screen). This command is useful to verify the existence and the content of a file before it is imported into pandas.	
The correct answer is: to verify that the file is available and preview the first few lines	
Question 4	
Correct	
Mark 2.00 out of 2.00	
A data analyst studies two variables over a period. Data set A is (100, 90, 81, 73) and data set B is (3500, 3150, 2835, 2552). The Pearson r value	
between these two variables is 0.99. Which statement describes the correlation between them?	
Select one:	
It indicates no relationship.	
It is a weak negative correlation.	
It is a strong positive correlation.	P
It is a strong negative correlation.	
Refer to curriculum topic: 3.1.5	
The Pearson r is a quantity to indicate the correlation between two variables. It is expressed as a value between -1 and 1. Positive values express a	
positive relationship between the changes in two variables. Negative values express an inverse relationship. The magnitude of either the positive or	
negative values indicates the degree of correlation. In other words the closer the value is to 1 or -1, the stronger the relationship. 0 indicates no relationship.	
The correct answer is: It is a strong positive correlation.	
Question 5	
Correct	
Mark 2.00 out of 2.00	
Which statement is an accurate description of discrete variables?	
Select one:	
Discrete variables are qualitative and consist of two or more categories in which order matters.	
They are quantitative with a continuous range of values.	,
They are quantitative with a finite set of values.	
They are qualitative and consist of two or more categories of values in which order does not matter.	
Refer to curriculum topic: 3.1.1 Variables are either categorical or numerical variables are qualitative and are either continuous or discrete variables are those	
Variables are either categorical or numeric. Numerical variables are qualitative and are either continuous or discrete. Discrete variables are those from a finite set of values such as the number of users on the network.	
The correct answer is: They are quantitative with a finite set of values.	

Question 6	
Correct	
Mark 2.00 out of 2.00	
Which file type is most similar to a dataframe in pandas?	
Select one:	
a PDF file	
o a spreadsheet	~
a word processing file	
a multilayer image file	
Refer to curriculum topic: 3.1.4 A dataframe in pandas is like a spreadsheet with rows and columns.	
The correct answer is: a spreadsheet	
Question 7	
Correct	
Mark 2.00 out of 2.00	
In a graphical reppresentation of the distribution for a discrete variable, what does the X and Y axis reppresent? (Choose two.)	
Select one or more:	
skew	
variable	~
y probability	~
range	
standard deviation	
Standard deviation	
Refer to curriculum topic: 3.1.3 A distribution can be graphed in two dimensions using two characteristics: the variable and the probability. Typically the variable is plotted on the variable and the probability on the y-axis.	X-
The correct answers are: variable, probability	
Question 8	
Correct	
Mark 2.00 out of 2.00	
What are two data structures in pandas? (Choose two.)	
Select one or more:	
text	
√ series	~
image	
number	
dataframe	~
Refer to curriculum topic: 3.1.4	
Pandas data structures include the series structure and the dataframe structure. Text, image, and number are possible values stored in a data structure.	
The correct answers are: series, dataframe	

Question 9
Correct
Mark 2.00 out of 2.00
What term describes the key characteristics that are observed or measured as part of an experiment or analysis?
Select one:
ovariable variable
data set
statistics
population
Refer to curriculum topic: 3.1.1 Variables are the key characteristics that are measured or observed as part of an experiment or an analysis. The correct answer is: variable
Question 10 Correct Mark 2.00 out of 2.00
What relationship is an example of causation?
Select one:
a relationship between sensors and actuators in IoT
a relationship in which two things change at a similar rate
a relationship between a computer operating system and one or more programming languages
a relationship when a change in one thing directly results in something else changing
Refer to curriculum topic: 3.1.5 Causation describes a relationship in which one thing changes, or is created, directly because of something else. It is not the relationship of the rate of change. Sensors and actuators in IoT are not directly related to each other. A controller might receive the signal from a sensor, make a decision, and instruct an actuator to act if necessary. Also, operating systems and programming languages are not dependent on each other. An operating system can be made by different programming languages. The correct answer is: a relationship when a change in one thing directly results in something else changing
Question 11
Correct
Mark 2.00 out of 2.00
What category of variables includes nominal or ordinal variables?
Select one:
numerical
categorical
ratio
interval interval
Refer to curriculum topic: 3.1.1 Variables are classified as either categorical or numerical. Categorical variables include nominal and ordinal variables. The correct answer is: categorical

Question 12			
Correct			
Mark 2.00 out of	£ 2.00		
	is used to describe a graph of distribution where the	peak is left of center or right of center?	
Select one:			,
Skewed	d	•	
normal			
bimoda	al		
symme	etric		
When a grap	riculum topic: 3.1.3 oh of distribution has the peak left or right of center, answer is: skewed	this is known as skew.	
Question 13 Correct			
Mark 2.00 out of	2.00		
Select one: The and The tw Neither When of Refer to curr The commo indicate a popositive or n relationship.	nalysis failed. o variables have no relationship. r variables changed during the period. one variable increases its value, the other variable r riculum topic: 3.1.5 nly used correlation coefficient, Pearson r, (or r valuesitive relationship between the changes in two qua	educes its value. e), is a quantity that is expressed as a value between -1 and 1. Positive values ntities. Negative values indicate an inverse relationship. The magnitude of either the the closer the value is to 1 or -1, the stronger the relationship. 0 indicates no	•
Correct Mark 2.00 out of	2.00		
Match the va	ariable with the description.		
ordinal	qualitative values in order of ranking	~	
nominal	qualitative values based on identity of the object	~	
continuous	quantitative values with infinite range	▼	
discrete	quantitative and finite set of values	~	
	riculum topic: 3.1.1		
	answer is: ordinal \rightarrow qualitative values in order of ravalues with infinite range, discrete \rightarrow quantitative a	anking, nominal → qualitative values based on identity of the object, continuous → and finite set of values	

Question 15		
Correct		
Mark 2.00 out of	f 2.00	
Match the va	ariable with the type o	of value.
nominal	eye color	✓
ordinal	student class rank	▼
continuous	sales volume	✓
discrete	number of users	~
Defects	de l'arte de 0.4.4	
	riculum topic: 3.1.1 answer is: nominal →	eye color, ordinal → student class rank, continuous → sales volume, discrete → number of users
1110 0011000	answer is. Hommar =	eye oolo, orania — statom olassi tani, oonandods — statos volume, districte — namber or asers
Question 16		
Correct		
Mark 2.00 out of	f 2.00	
Which term Select one:	is used to describe th	e difference between the highest and the lowest values for a variable?
range		
() mode		
variano	ce	
variano	ce ard deviation	
variano		
variand standa skew Refer to curr The range is	riculum topic: 3.1.3	een the highest and lowest values for a variable. By knowing the range, someone looking at the data can have a ense.
variand standa skew Refer to curr The range is basic idea if	riculum topic: 3.1.3 s the difference between	
variand standa skew Refer to curr The range is basic idea if	riculum topic: 3.1.3 s the difference betwee the data is making so	
variand standa skew Refer to curr The range is basic idea if The correct	riculum topic: 3.1.3 s the difference betwee the data is making so	ense.
variand standa skew Refer to curr The range is basic idea if The correct	riculum topic: 3.1.3 s the difference between the data is making so answer is: range	ncepts Practice
variand standa skew Refer to curr The range is basic idea if The correct	riculum topic: 3.1.3 s the difference between the data is making so answer is: range	ense.

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