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Course

BigData\$ IoT

Grades

State Finished

Completed on Tuesday, 6 June 2023, 1:45 PM

 Time taken
 9 mins 33 secs

 Marks
 32.00/36.00

 Grade
 88.89 out of 100.00

Started on Tuesday, 6 June 2023, 1:35 PM

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Question **1**Correct
Mark 2.00 out of 2.00

What two aspects of modern data analytics enhance data-driven decision making compared with traditional data analysis methods? (Choose two.)

Select one or more:

real-time incoming data
well-defined data structures

data from multiple sources
data stored in a central data warehouse
predominant use of descriptive analytical tools

Refer to curriculum topic: 2.2.3

Traditional analytics use descriptive analytical tools and they rely on structured data stored in a single data warehouse. This type of analysis only uses historical data. However, modern analytics takes advantage of both structured and unstructured data collected in real-time from multiple data sources to enable businesses to make decisions quickly in response to situation changes.

The correct answers are: real-time incoming data, data from multiple sources

Question 2
Correct
Mark 2.00 out of 2.00

Which statement is true concerning data analytics?

Select one:

Prescriptive analytics uses historical data to provide regular reports on events that have already happened.

Predictive analytics uses simulation models and forecasting to suggest what could happen.

Descriptive analytics uses a feedback system to track the outcome of actions taken.

Descriptive analytics attempts to predict what will happen next.

Refer to curriculum topic: 2.2.2

Descriptive analytics uses historical data to provide regular reports on events that have already happened. Prescriptive analytics uses a feedback system to track the outcome of actions taken. Predictive analytics uses data and statistical techniques to predict future trends. All three types of analytics (Prescriptive, Predictive, and Descriptive) are used in Big Data analysis.

The correct answer is: Predictive analytics uses simulation models and forecasting to suggest what could happen.

PM	Chapter 2 Quiz: Attempt review
Question 3	
Correct	
Mark 2.00 out of 2.00	
	loyed next-generation analytics. Which question would most likely be answered by next generation analytics that could not be tional analysis tools?
Select one:	
Which class	has the most sections available?
What are the	10 most expensive textbooks required in any class?
Which 100 cl	lasses fill the fastest once open enrollment is available for the general population?
Which teach	er had the highest number of students enrolled in classes during the last year?
Which class	sections do students consider the most in the online environment without actually enrolling?
quickest or the mo analytics based or	ould be able to answer questions related to how many sections, textbook prices, or enrollment statistics such as courses that fill the ost number of students. Next generation analytics takes data analysis a step forward in analyzing browsing habits and predictive in prior data and current data in real time. For is: Which class sections do students consider the most in the online environment without actually enrolling?
Question 4	
Correct	
Mark 2.00 out of 2.00	
Which task is perf	ormed within the data analysis step of the Data Analysis Lifecycle?
Select one:	
testing the m	odel on data to ensure reliability
incorporating	the findings into corporate strategy
selecting a to	pol for data analysis
Olocating and	gathering data
Refer to curriculur Testing the reliabil	n topic: 2.2.4 lity of the model is performed in the data analysis step of the Data Analysis Lifecycle.
The correct answe	er is: testing the model on data to ensure reliability

PM	Chapter 2 Quiz: Attempt review
Question 5	
Correct	
Mark 2.00 out of 2.00	
=	rning management system (LMS) to host lecture materials and provide access to assignments and assessments. A teacher uses tivities completed by students in a particular course. Which data analytics method is being used?
Select one:	
indicative	
predictive	
descriptive	✓
prescriptive	
proactive	
Refer to curriculum to Data analytics, appli	topic: 2.2.2 ed to Big Data, can be classified in three major types:
Predictive - atterPrescriptive - pr	ovides information about the past state or performance of a person or an organization mpts to predict the future, based on data and analysis, or what will happen next edicts outcomes and suggests courses of actions that will hold the greatest benefit to an organization ther uses the existing data to check the progress of students.
The correct answer	
Question 6	
Correct	
Mark 2.00 out of 2.00	
Which two tasks ma	y be performed as part of the data transformation process? (Choose two.)
Select one or more:	
sorting the data	· ·
applying valida	tion rules to the data
transferring the	data into a database
_	recording the data
communicating	results to decision-makers
Refer to curriculum to The process of trans	topic: 2.3.2 sforming the data includes tasks such as these:
Joining data from	
Aggregating dataSorting data	
	values calculated from aggregated data
Applying validation	
The correct answers	s are: sorting the data, applying validation rules to the data

Question 7	
Incorrect	
Mark 0.00 out of 2.00	

What is an example of data in the DIKW Pyramid model?

Select one:

- odata structured in a format that can be analyzed
- the application of knowledge
- information that is understood and can be used immediately
- facts gathered through observation

Refer to curriculum topic: 2.2.1

The DIKW Pyramid model is used to describe the relationship between data, information, knowledge, and wisdom. The following is an explanation of each level of the pyramid (from top to bottom):

- · Wisdom is the understanding of how to apply knowledge.
- · Knowledge is information that is understood and can now be used to make decisions.
- \cdot Information is data that has been structured in a way that it is useful for analysis.
- · Data consists of facts from some type of observation or measurement.

The correct answer is: facts gathered through observation

Question 8
Correct
Mark 2.00 out of 2.00

Place the six steps in the data analysis lifecyle in the correct order.



Refer to curriculum topic: 2.2.4

The six steps of the data analysis lifecycle are:

Step 1 - Gather the data.

Step 2 - Prepare the data.

Step 3 - Choose a model.

Step 4 - Analyze the data. Step 5 - Present the results.

Step 6 - Make decisions.

State a hypothesis is not one of the six steps in the data analysis lifecycle, rather it is the second step in the scientific method.

The correct answer is: Gather the data. \rightarrow Step 1, Prepare the data. \rightarrow Step 2, Choose a model. \rightarrow Step 3, Analyze the data. \rightarrow Step 4, Present results. \rightarrow Step 5, Make decisions. \rightarrow Step 6

PM	Chapter 2 Quiz: Attempt review	
Question 9		
Incorrect		
Mark 0.00 out of 2.00		
=	ng company collects the sales history of its customers. Using this historical data, the online company sends customized sales specific group of customers. Which data analytics method is being used?	
Select one:		
indicative		
predictive	×	
descriptive		
prescriptive		
Refer to curriculum to	opic: 2.2.2 ed to Big Data, can be classified into three major types:	
Predictive - attenPrescriptive - pre	vides information about the past state or performance of a person or an organization npts to predict the future, based on data and analysis, or what will happen next edicts outcomes and suggests courses of actions that will hold the greatest benefit to an organization pany predicts the customers who are more likely to purchase similar products, and sends those customers the targeted sales	
The correct answer is	s: prescriptive	
Question 10		
Correct		
Mark 2.00 out of 2.00		
Which data trend has	s seen decision making rely increasingly on data analytics?	
Select one:		
the increase in t	the amount of data	,
the security con	straints of data	
the lack of inform	mation about data	
the accuracy of	decision making	
	opic: 2.2.1 collected and stored are increasing exponentially and require the application of data analytics to extract the required information	۱.

PIM	Chapter 2 Quiz: Attempt review	
Question 11		
Correct		
Mark 2.00 out of 2.00		
In a data analysis project, which process gathers all g	grades for students enrolled in a college course?	
Select one:		
action		
extract	•	~
Oload		
transform		
Refer to curriculum topic: 2.3.2		
There are three processes in data preparation:	analyzed	
 Extract - The process of gathering the data to be a Transform - The process of conditioning data into 		
Load - The process of transferring data to a database.		
Action is the application of knowledge, but it is not or	ne of the processes used in data preparation.	
The correct answer is: extract		
Question 12		
Correct		
Mark 2.00 out of 2.00		
In what step of the Data Analysis Lifecycle are tools s	selected for performing data analysis?	
Select one:		
choosing a model	•	~
gathering data		
presenting the data		
preparing the data		
Refer to curriculum topic: 2.2.4 There are six steps in the Data Analysis Lifecycle:		
1. Gathering the data		
2. Preparing the data		
3. Choosing the model		
Analyzing the data Presenting the data		
6. Making decisions		
Of these six steps, the selection of tools for data analysis	lysis is performed in step 3, choosing the model.	
The correct answer is: choosing a model		

aal privacy?
ncern of Big Data.
Data are treated the same way around the world.
sumers will not have to worry about privacy issues because privacy is the responsibility of government.
onstruction of an ethical framework would help the collection and use of Big Data.
d strict regulations on the use of Big Data varies from country to country. A survey of 865 data scientists about ta found 88% believed that consumers should worry about privacy issues and 80% agreed that there should lecting and using data.
a scientists, the construction of an ethical framework would help the collection and use of Big Data.
data and modify any incompatible metric used by various sources of data. Which step in ETL does this
✓
aration:
e data to be analyzed ing data and modifying it into a usable form
ita to a database

The correct answer is: to show that different types of information can be found about a person

Question 16	
Correct	
Mark 2.00 out of 2.00	
In the DIKW (data, information, knowledge, and wisdom) model, what is the definition of knowledge?	
Select one:	
Chowledge is unstructured data.	
Nowledge is information that is understood and can be used to make decisions.	~
Knowledge is data that is structured in a useful way.	
Knowledge is the understanding of how to apply data.	
Refer to curriculum topic: 2.2.1 Knowledge is information that is understood and can be used to make decisions. Information is data that has been structured in a way that it is understanding of how to apply knowledge. Data is common raw values taken from measurements.	seful.
The correct answer is: Knowledge is information that is understood and can be used to make decisions.	
Question 17	
Correct	
Mark 2.00 out of 2.00	
In what way is the Data Analysis Lifecycle similar to using the scientific method?	
Select one:	
They both begin with a question.	~
They both use the same process steps.	
They both lead to the same results.	
They both require a scientist to solve a problem.	
They bour require a solentist to solve a problem.	
Refer to curriculum topic: 2.2.4 The Data Analysis Lifecycle is a process that is similar to the process used in the scientific method. Both begin with a question that needs to be	
solved.	
The correct answer is: They both begin with a question.	
Question 18	
Correct	
Mark 2.00 out of 2.00	
What is a characteristic of the six-step Data Analysis Lifecycle methodology?	
Select one:	
Each step includes many tasks that must be completed before moving on to the next step.	~
It is the only methodology available for data analysis.	
It was designed exclusively for use in a scientific environment.	
The analysis process is very straightforward, so there are no iterations with previous steps.	
Refer to curriculum topic: 2.1.1 There are many methodologies for conducting data analysis. The six-step Data Analysis Lifecycle methodology is designed for use in a business environment. The lifecycle may require many iterations between some steps before decision-makers are confident enough to move forward. Each step in the lifecycle includes many tasks that must be completed before moving on to the next step.	
The correct answer is: Each step includes many tasks that must be completed before moving on to the next step.	
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