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IoT Fundamental: Big Data and Analysis

Started on	Saturday, 17 September 2022, 2:34 PM
State	Finished
Completed on	Saturday, 17 September 2022, 2:37 PM
Time taken	2 mins 57 secs
Marks	36.00/36.00
Grade	100.00 out of 100.00

Question **1**Correct

Mark 2.00 out of 2.00

Which two tasks may be performed as part of the data transformation process? (Choose two.)

Select one or more: sorting the data applying validation rules to the data transferring the data into a database

Refer to curriculum topic: 2.3.2

The process of transforming the data includes tasks such as these:

· Joining data from several sources

collecting and recording the data

communicating results to decision-makers

- Aggregating data
- Sorting data
- · Determining new values calculated from aggregated data
- Applying validation rules

The correct answers are: sorting the data, applying validation rules to the data

Question 2	
Correct	
Mark 2.00 out of 2.00	

An analyst is asked to review gathered data and modify any incompatible metric used by various sources of data. Which step in ETL does this represent?

action
extract
load
transform

Select one:

Refer to curriculum topic: 2.3.2

There are three processes in data preparation:

- Extract the process of gathering the data to be analyzed
- Transform the process of aggregating data and modifying it into a usable form
- Load the process of transferring data to a database

The correct answer is: transform

Chapter 2 Quiz: Attempt review

suestion 3	
orrect	
lark 2.00 out of 2.00	
n the DIKW (data, information, knowledge, and wisdom) model, what is the definition of knowledge?	
Select one:	
○ Knowledge is unstructured data.	
Knowledge 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	oful
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 us Wisdom is the understanding of how to apply knowledge. Data is common raw values taken from measurements.	etui.
The correct answer is: Knowledge is information that is understood and can be used to make decisions.	
uestion 4	
orrect	
lark 2.00 out of 2.00	
Which task is performed within the data analysis step of the Data Analysis Lifecycle?	
Select one:	
testing the model on data to ensure reliability	~
incorporating the findings into corporate strategy	
selecting a tool for data analysis	
Olocating and gathering data	
Refer to curriculum topic: 2,2,4	
Testing the reliability of the model is performed in the data analysis step of the Data Analysis Lifecycle.	
The correct answer is: testing the model on data to ensure reliability	

Question 5	
Correct	
Mark 2.00 out of 2.00	
What is true about Big Data and personal privacy?	
Select one:	
Privacy issues are not a major concern of Big Data.	
Ethical issues about the use of Big Data are treated the same way around the world.	
Most data scientists think that consumers will not have to worry about privacy issues because privacy is the responsibility of government.	
According to data scientists, the construction of an ethical framework would help the collection and use of Big Data.	/
Refer to curriculum topic: 2.4.1	
The response from governments around strict regulations on the use of Big Data varies from country to country. A survey of 865 data scientists about ethical issues around the use of Big Data found 88% believed that consumers should worry about privacy issues and 80% agreed that there should be an ethical framework in place for collecting and using data.	
The correct answer is: According to data scientists, the construction of an ethical framework would help the collection and use of Big Data.	
Question 6	
Correct	
Mark 2.00 out of 2.00	
A college uses a learning management system (LMS) to host lecture materials and provide access to assignments and assessments. A teacher use the LMS to check activities completed by students in a particular course. Which data analytics method is being used?	∍s
Select one:	
indicative	
predictive	
descriptive	
_ prescriptive	
proactive	
Refer to curriculum topic: 2.2.2 Data analytics, applied to Big Data, can be classified in three major types:	
 Descriptive - provides information about the past state or performance of a person or an organization Predictive - attempts to predict the future, based on data and analysis, or what will happen next Prescriptive - predicts outcomes and suggests courses of actions that will hold the greatest benefit to an organization 	

In this case, the teacher uses the existing data to check the progress of students.

The correct answer is: descriptive

Question 7
Correct
Mark 2.00 out of 2.00
A large online ordering company collects the sales history of its customers. Using this historical data, the online company sends customized sales advertisements to a specific group of customers. Which data analytics method is being used?
Select one:
indicative
predictive
descriptive
oprescriptive
Refer to curriculum topic: 2.2.2 Data analytics, applied to Big Data, can be classified into three major types:
Descriptive - provides information about the past state or performance of a person or an organization
 Predictive - attempts to predict the future, based on data and analysis, or what will happen next Prescriptive - predicts outcomes and suggests courses of actions that will hold the greatest benefit to an organization
In this case, the company predicts the customers who are more likely to purchase similar products, and sends those customers the targeted sales
advertisements. The correct answer is: prescriptive
The contact anowar is. procentiate
Question 8
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.
Defeats and the Landaria CAA
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.

Question 9	
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.	
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 10	
Correct	
Mark 2.00 out of 2.00	
In what step of the Data Analysis Lifecycle are tools 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	
4. Analyzing the data	
5. Presenting the data6. Making decisions	
Of these six steps, the selection of tools for data analysis is performed in step 3, choosing the model.	
The correct answer is: choosing a model	

Question 11	
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	se 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 analysi uses historical data. However, modern analytics takes advantage of both structured and unstructured data collected in real-time from multip 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 12	
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 fee system to track the outcome of actions taken. Predictive analytics uses data and statistical techniques to predict future trends. All three type 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.	

Question 13
Correct
Mark 2.00 out of 2.00
Which data trend has seen decision making rely increasingly on data analytics?
Select one:
the increase in the amount of data
the security constraints of data
the lack of information about data
the accuracy of decision making
Refer to curriculum topic: 2.2.1 The amounts of data collected and stored are increasing exponentially and require the application of data analytics to extract the required information.
The correct answer is: the increase in the amount of data
Question 14
Correct Mark 2.00 out of 2.00
Will A 2.00 Out of 2.00
What was the main purpose of the "Discover Your Internet Footprint" activity?
what was the main purpose of the Discover rout internet routprint activity:
Select one:
to show that only public information about a person can be found
oto show that different types of information can be found about a person
to show that only authorized government workers can find information about a person
to show that any information about a person can be found, but only if a person gives an authorization to do so
Refer to curriculum topic: 2.4.1 A lot of information can be found on the Internet about people. Much of this information can be private, sensitive, or even incriminating. Personal
information ranging from where a person has lived, government records, and credit history can be easily discovered for free, or for a price.

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

Question 15
Correct
Mark 2.00 out of 2.00
In a data analysis project, which process gathers all grades for students enrolled in a college course?
Select one:
action
o extract
Oload
transform
Refer to curriculum topic: 2.3.2 There are three processes in data preparation:
Extract - The process of gathering the data to be analyzed.
Transform - The process of conditioning data into a usable form.
 Load - The process of transferring data to a database. Action is the application of knowledge, but it is not one of the processes used in data preparation.
The correct answer is: extract
Question 16
Correct
Mark 2.00 out of 2.00
What is an example of data in the DIKW Pyramid model?
Select one:
data 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.

- 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

PM		Chapter 2 Quiz: Attempt review	
Question 17			
Correct	Correct		
Mark 2.00 out of 2.00			
Place the six steps	s in the data ar	nalysis lifecyle in the correct order.	
Gather the data.	Step 1	✓	
Prepare the data.	Step 2	✓	
Choose a model.	Step 3	•	
Analyze the data.	Step 4	✓	
Present results.	Step 5	✓	
Make decisions.	Step 6	✓	
	e data. ne data. model. ne data. ne results. isions. is not one of	the six steps in the data analysis lifecycle, rather it is the second step in the scientific method. e data. → Step 1, Prepare the data. → Step 2, Choose a model. → Step 3, Analyze the data. → Step 4, Present	
Question 10 Correct			
Mark 2.00 out of 2.00			
answered by tradit Select one: Which class I What are the	ional analysis nas the most s 10 most expe	neration analytics. Which question would most likely be answered by next generation analytics that could not be tools? sections available? nsive textbooks required in any class? astest once open enrollment is available for the general population?	
Which teache	er had the high	est 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	ould be able to st number of s	answer questions related to how many sections, textbook prices, or enrollment statistics such as courses that fill the students. Next generation analytics takes data analysis a step forward in analyzing browsing habits and predictive d current data in real time.	
The correct answe	r is: Which cla	ass sections do students consider the most in the online environment without actually enrolling?	

Read Chapter 3: Data Analysis ▶

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