

! Try again once you are ready
TO PASS 80% or higher

Try again

GRADE 75%

Course challenge

LATEST SUBMISSION GRADE							
75%							
1.	The collection, transformation, and organization of data in order to draw conclusions, make predictions, and drive informed decision-making describes what?	1/1 point					
	Data analysis						
	Data science						
	Data analytics						
	O Data life cycle						
	Correct Correct! Data analysis is the collection, transformation, and organization of data in order to draw conclusions, make predictions, and drive informed decision-making.						
2.	Billings Upholstery has defined a problem it needs to solve: Find a more environmentally friendly way to produce its furniture. A data analyst gathers relevant data, analyzes it, and uses it to draw conclusions. The analyst then shares their analysis with subject-matter experts from the manufacturing team, who validate the findings. Finally, a plan is put into action. This scenario describes what process?	1/1 point					
	Data-driven decision-making						
	Customer service						
	O Data science						
	Oldentification of trends						
	 Correct Correct! This company has put data at the heart of its business strategy in order to achieve data-driven decision-making. 						
3.	Awareness of the condition in which something exists or happens describes which analytical skill? Ounderstanding context Data design Curiosity Having a technical mindset	1/1 point					
	 Correct Correct! Context is the condition in which something exists or happens. This can be a structure or an environment. 						
4.	Analytical thinking involves five key aspects, including correlation. Correlation involves figuring out all of the specifics that help you execute a plan. True False	1/1 point					
	 Correct Correct! Correlation involves being able to identify a relationship between two or more pieces of data. 						
5.	The five whys is a technique that involves asking, "Why?" five times in order to achieve what goal?	1/1 point					
	Visualize how a process should look in the future.						
	Put a plan into action.						
	Use facts to guide business strategy.						
	Identify the root cause of a problem.						

6. In which stage of the data life cycle does a business decide what kind of data it needs, how the data will be managed, and who will be responsible for it?
○ Manage
Plan
Capture
○ Analyze
Correct Correct! During planning, a business decides what kind of data it needs, how it will be managed throughout its life cycle, who will be responsible for it, and the optimal outcomes.
7. A data analyst has finished an analysis project that involved private company data. They erase the digital files in order to keep the information secure. This describes which stage of the data life cycle?
○ Manage
Destroy
O Plan
○ Archive
Correct Correct! Destroying data in order to keep it secure is part of the final stage of the data life cycle.
8. A company takes the insights provided by its data analytics team, validates them, and finalizes a strategy. Then, a plan is put to work in order to solve the original business problem. Fill in the blank: This describes which step of the data analysis process?
○ Analyze
○ Share
O Process
Act
Correct! The act phase is when insights are put into action.
9. A function is a set of instructions that performs a specific calculation using spreadsheet data.
○ True
False
Correct! A formula is a set of instructions that performs a specific calculation using the data in a spreadchest
Correct! A formula is a set of instructions that performs a specific calculation using the data in a spreadsheet.
10. As a data analyst, it's important to help create systems that are fair and inclusive to everyone. Being fair involves ensuring 0/1 point that analysis doesn't lead to conclusions that people disagree with.
True
○ False
Incorrect Incorrect. Review the section on fairness for a refresher.
11. Scenario 1, question 11-15
You've just started a new job as a data analyst. You're working for a midsized pharmacy chain with 38 stores in the American Southwest. Your supervisor shares a new data analysis project with you.
She explains that the pharmacy is considering discontinuing a bubble bath product called Splashtastic. Your supervisor wants you to analyze sales data and determine what percentage of each store's total daily sales come from that product. Then, you'll present your findings to leadership.

 ${\it Correct!} \ {\it A} \ {\it root cause is the reason why a problem occurs. In the five whys, you ask, "Why?" five times to {\it root cause is the reason why a problem occurs.} \\$

✓ Correct

identify it.

You know that it's important to follow each step of the data analysis process: ask, prepare, process, analyze, share, and act. So, you begin by defining the problem and making sure you fully understand stakeholder expectations.

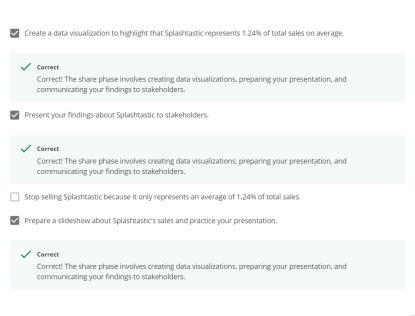
One of the questions you ask is where to find the dataset you'll be working with. Your supervisor explains that the company database has all the information you need.

Next, you continue to the prepare step. You access the database and write a query to retrieve data about Splashtastic. You notice that there are only 38 rows of data, representing the company's 38 stores. In addition, your dataset contains six columns: Store Number, Average Daily Customers, Average Daily Splashtastic Sales (Units), Average Daily Splashtastic Sales (Dollars), and Average Total Daily Sales (All Products).

	Considering the size of your dataset, you decide a spreadsheet will be the best tool for your project. You proceed by downloading the data from the database. Describe why this is the best choice.					
(0	Sp	readsheets are most effective when working with queries.			
(0	Da	atabases can't be used for analysis.			
(0	Sp	readsheets work well for processing and analyzing a small dataset, like the one you're using.			
(•	Or	nly spreadsheets let you download and upload data.			
		į	Incorrect			
			Incorrect. Review the section on data analysis tools for a refresher.			
2. :	Scei	naı	io 1 continued	0 / 1 point		
			downloaded the data from your company database and imported it into a spreadsheet. <u>Click here</u> to see your sheet.			
1	tha	t ca	t's time to process the data. As you know, this step involves finding and eliminating errors and inaccuracies on get in the way of your results. While cleaning the data, you notice that information about Splashtastic is g in row 16. Select the best course of action.			
(0		Il the store associated with row 16, and ask the sales associate how Splashtastic has been selling.			
Ì			lete row 16 from your dataset so the missing data doesn't get in the way of your results.			
,			entify another store with similar customer and sales numbers, and use their data about Splashtastic.			
		IU	entify another store with similar customer and sales numbers, and use their data about spiashtasut.			
		!	Incorrect Incorrect. Review the section on data analysis tools for a refresher.			
			io 1 continued	1 / 1 point		
			ou've found the missing information, you analyze your dataset. You use a formula to determine how much of each daily sales come from sales of Splashtastic. <u>Click here</u> to see your updated spreadsheet.			
			analysis, you create a new column F. At the top of the column, you add the attribute Average Percentage al Sales - Splashtastic. Select the correct definition for an attribute.			
(•	А	characteristic or quality of data used to label a column			
(0	An	observation of data within a column			
(0	All	of the characteristics of something contained in a table			
(0	Αŀ	neadline or subhead			
	,	~	Correct! An attribute is a characteristic or quality of data used to label a column.			
4. :	Scei	nar	io 1 continued	1/1 point		
			ou determine the average percentage that Splashtastic sales represent for all 38 stores. To do this, you type a n in cell H2. Fill in the blank to complete the function correctly: = (F:F).			
(•	ΑV	ERAGE			
(0	SE	LECT			
(0	FR	ОМ			
(0	WI	HERE			
	•	/	Correct Correct! The function begins with an equal sign (=), then the word AVERAGE. The range is all of column F, represented by F:F.			

15. Scenario 1 continued

1/1 point



16. Scenario 2, questions 11-20

1 / 1 point

You've been working for the nonprofit National Dental Society (NDS) as a junior data analyst for about two months. The mission of the NDS is to help its members advance the oral health of their patients. NDS members include dentists, hygienists, and dental office support staff.

The NDS is passionate about patient health. Part of this involves automatically scheduling follow-up appointments after crown replacement, emergency dental surgery, and extraction procedures. NDS believes the follow-up is an important step to ensure patient recovery and minimize infection.

Unfortunately, many patients don't show up for these appointments, so the NDS wants to create a campaign to help its members learn how to encourage their patients to take follow-up appointments seriously. If successful, this will help the NDS achieve its mission of advancing the oral health of all patients.

Your supervisor has just sent you an email saying that you're doing very well on the team, and he wants to give you some additional responsibility. He describes the issue of many missed follow-up appointments. You are tasked with analyzing data about this problem, and presenting your findings using data visualizations.

An NDS member with three dental offices in Maine offers to share its data on missed appointments. So, your supervisor uses a database query to access the dataset from the dental group. The query instructs the database to retrieve all patient information from the member's three dental offices, located in zip code 04000.

Select the query your supervisor used, based on the information he shared in his email.

```
SELECT data
FROM dental_data_table
WHERE zip_code = 04000
```

SELECT *
FROM dental_data_table
WHERE zip_code = 04000

SELECT data
FROM zip_code = 04000
WHERE dental_data_table

SELECT *
FROM dental_data_table
WHERE = 04000

✓ Correct

Correct! The asterisk (*) tells the database to retrieve all data, and WHERE tells the database to include data that matches the 04000 zip code.

17. Scenario 2 continued

0 / 1 point

The dataset your supervisor retrieved and imported into a spreadsheet includes a list of patients, their demographic information, dental procedure types, and whether they attended their follow-up appointment. <u>Click here</u> to view the dataset.

The patient demographic information includes data such as age and gender. As you're learning, it's your responsibility as a data analyst to make sure your analysis is fair. Which aspect of patient demographics might

	get in the way of fairness?	
	The dataset represents people who are single.	
	The dataset indicates which dental procedure the patients had performed.	
	The dataset contains patient identification numbers.	
	The dataset includes people who all live in the same zip code.	
	Incorrect Incorrect. Review the section on fairness for a refresher.	
	incorrect. Neview the section of rainless for a refresher.	
18.	Scenario 2 continued	1 / 1 point
	As you're reviewing the dataset, you notice that there are a disproportionate number of senior citizens. So, you investigate further and find out that this zip code represents a rural community in Maine with about 800 residents. In addition, there's a large assisted-living facility in the area. Nearly 300 of the residents in the 04000 zip code live in the facility.	
	You recognize that's a sizable number, so you want to find out if age has an effect on a patient's likelihood to attend a follow-up dental appointment. You analyze the data, and your analysis reveals that older people tend to miss follow-ups more than younger people.	
	So, you do some research online and discover that people over the age 60 are 50% more likely to miss dentist appointments. Sometimes this is because they're on a fixed income. Also, many senior citizens lack transportation to get to and from appointments.	
	With this new knowledge, you write an email to your supervisor expressing your concerns about the dataset. He agrees with your concerns, but he's also impressed with what you've learned and thinks your findings could be very important to the project. He asks you to change the business task. Now, the NDS campaign will be about educating dental offices on the challenges faced by senior citizens and finding ways to help them access quality dental care.	
	Changing the business task involves defining the new question or problem to be solved.	
	True	
	False	
	 Correct Feedback: Correct! A business task is the question or problem data analysis answers for a business. 	
19.	. Scenario 2 continued	1/1 point
	You continue with your analysis. In the end, your findings support what you discovered during your online research: As people get older, they're less likely to attend follow-up dental visits.	
	But you're not done yet. You know that data should be combined with human insights in order to lead to true data-driven decision-making. So, your next step is to share this information with people who are familiar with the problem. They'll help verify the results of your data analysis.	
	The people who are familiar with a problem and help verify the results of data analysis include customers and competitors.	
	○ True	
	False	
	 Correct Correct! Subject matter experts look at the results of data analysis to identify any inconsistencies, make sense of the gray areas, and eventually validate the choices being made. 	
20.	. Scenario 2 continued	0 / 1 point
	The subject-matter experts are impressed by your analysis. The team agrees to move to the next step: data visualization. You know it's important that stakeholders at NDS can quickly and easily understand that older people are less likely to attend important follow-up dental appointments. This will help them create an effective campaign for members.	
	It's time to create your presentation to stakeholders. It will include a data visualization that demonstrates the trend of people being less likely to attend follow-up appointments as they get older. Which type of chart will be most effective?	
	A line chart	
	A table	
	A pie chart	
	A donut chart	
	! Incorrect	

Incorrect. Review the section on fairness for a refresher.