Congratulations! You passed!

Grade received 100% To pass 80% or higher

Go to next item

1/1 point

Course challenge

Latest Submission Grade 100%

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.

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 companys 38 stores. In addition, your dataset contains five 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, what's the best way to proceed with the process and analyze steps?

Upload the data, then process and analyze it using Tableau.

Continue using the company database to process and analyze the data.

Download the data, then use a spreadsheet to process and analyze it.

Use SQL to process and analyze the data.

Correct
 Spreadsheets work well for processing and analyzing a small dataset, such as the one you're using.

2. Scenario 1 continued

1/1 point

You've downloaded the data from your company database and imported it into a spreadsheet. To use the dataset for this scenario, click the link below and select "Use Template."

Link to template: Course Challenge - Scenario 1

OR

If you don't have a Google account, you can download the template directly from the attachment below.

Course Challenge Dataset - Scenario 1 - Scenario 1_ Pharmacy Data - Part 1

CSVFile

Download file()

Now, it's time to process the data. As you know, this step involves finding and eliminating errors and inaccuracies that can get in the way of your results. While cleaning the data, you notice that information about Splashtastic is missing in row 16. The best course of action is to delete the row with missing data from your dataset so it doesn't get in the way of your results.

TrueFalse

√ Corr

Deleting data from a dataset can get in the way of accurate results. In this case, it would be smart to email your supervisor for guidance. Asking questions helps you learn and avoid mistakes.

3. Scenario 1 continued

1/1 point

Once you've found the missing information, you analyze your dataset.

During analysis, you create a new column F. At the top of the column, you add: Average Percentage of Total Sales - Splashtastic. In data analytics, this column label is called an attribute.

True

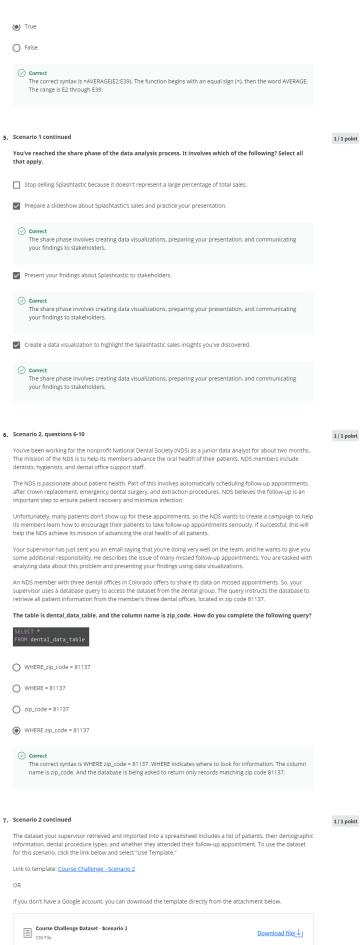
O False

Correct
This column label is an attribute, which is a characteristic or quality of data used to label a column.

4. Scenario 1 continued

1/1 point

Next, you determine the average total daily sales over the past 12 months at all stores. The range that contains these sales is E2:E39. The correct syntax is =AVERAGE(E2:E39).



The dataset includes people who all live in the same zip code.	
The dataset contains patient identification numbers.	
The dataset indicates which dental procedure the patients had performed.	
The dataset represents people who are single.	
Correct It's your responsibility as a data analyst to make sure your analysis is fair. Although many zip codes do reflect diverse populations, a better choice would be to include data about people who live in multiple zip codes.	
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 Colorado with about 800 residents. In addition, there's a large assisted-living facility in the area. Nearly 300 of the residents in the 81137 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.	
Fill in the blank: Changing the business task involves defining a new	
O gap analysis plan	
O graphical representation of the data	
question or problem to be solved	
O data-cleaning strategy	
Scenario 2 continued 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	1/1 point
problem. They'll help verify the results of your data analysis. Fill in the blank: The people who are familiar with a problem and help verify the results of data analysis are	
O stakeholders	
subject-matter experts	
O data scientists	
O customers	
 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. 	
, Scenario 2 continued	1/1 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 doughnut chart	
○ A table	
O A table A pile chart	