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Graded Quiz • 50 min **Due** Jul 9, 11:59 PM +08

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decisions

The importance of fair business Go to next item Grade * Course Conversion To pass 80% or received 100% OUTS Que Conversion higher Optional: Exploring your next job *Weekly challenge 5* **Review Learning Objectives** *Course challenge* Reading: Test-taking strategies 1 / 1 point You've just started a new job as a data analyst. You're working for a midsized pharmacy chain with 38 stores in the Submit your assignment American Southwest. Your supervisor shares a new data analysis project with you. Quiz: *Course challenge* **Due** Jul 9, 11:59 PM +08 **Attempts** 3 every 24 hours
She explains that the pharmacy is considering discontinuing a bubble bath product called Splashtastic. Your Video: Congrats! Course wrap-up 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.

Receive grade Reading: Coming up next... View Feedback You know that it's important to follow each step of the data analysis process: ask, prepare, process, analyze, **To Pass** 80% or higher share, and act. So, you begin by defining the problem and making sure you fully understand stakeholder We keep your highest score expectations. One of the questions you ask is where to find the dataset you'll be working with. Your supervisor explains that the company databaseheas allthe interpretanissue 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 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, 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. Spreadsheets work well for processing and analyzing a small dataset, like the one you're using. O Spreadsheets are most effective when working with queries. Only spreadsheets let you download and upload data. O Databases can't be used for analysis. **⊘** Correct 2. Scenario 1 continued 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 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 CSV 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 there's missing data in one of the rows. What might you do to fix this problem? Select all that apply. ☐ Delete the row with the missing data point Ask you supervisor for guidance **⊘** Correct Sort the spreadsheet so the row with missing data is at the bottom Ask a colleague on your team how they've handled similar issues in the past 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 the attribute Average Percentage of Total Sales - Splashtastic. Fill in the blank: An attribute is a characteristic or _____ of data used to label a column. quality number Collection Observation **⊘** Correct 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. To do this, you use a function. You input =AVE(E2:E39), but this returns an error. What is the correct command? =AVERAGE(E2+E39) =AVERAGE(E2,E29) =AVERAGE(E2-E39) =AVERAGE(E2:E39) **⊘** Correct 5. Scenario 1 continued You've reached the share phase of the data analysis process. It involves which of the following? Select all that apply. Prepare a slideshow about Splashtastic's sales and practice your presentation. Stop selling Splashtastic because it doesn't represent a large percentage of total sales. Present your findings about Splashtastic to stakeholders. Create a data visualization to highlight the Splashtastic sales insights you've discovered. **⊘** Correct 6. Scenario 2, questions 6-10 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 Colorado 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 81137. The table is dental_data_table, and the column name is zip_code. You have written the following query, but received an error when it ran. What is the clause that will correct this query? SELECT * FROM dental_data_table WHERE dental_data_table = 81137 ● WHERE zip_code = 81137 ○ WHERE zip_code 81137 ○ WHERE_zip_code = 81137 ○ WHERE = 81137 **⊘** Correct 7. Scenario 2 continued 1 / 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. To use the dataset for this scenario, click the link below and select "Use Template." Link to template: Course Challenge - Scenario 2 If you don't have a Google account, you can download the template directly from the attachment below. Course Challenge Dataset - Scenario 2 CSV File • • • The patient demographic information includes data such as age, gender, and home address. When examining the geographic data, you notice that all the patients live in the same zip code. Fill in the blank: The fact that the dataset includes people who all live in the same zip code might get in the way of _____. data visualization accuracy fairness spreadsheet formulas or functions **⊘** Correct 8. Scenario 2 continued 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. Changing the business task involves which of the following? Oreating a graphical representation of the data Defining the new question or problem to be solved Oconducting a gap analysis O Using a database instead of a spreadsheet **⊘** Correct 9. 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 professionally. 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 data scientists Customers subject-matter experts stakeholders **⊘** Correct 10. 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 than younger people. 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 lifetime trend of people being less likely to attend follow-up appointments as they get older. Fill in the blank: The type of chart that would be most effective in visualizing this is a _____. line chart O bar chart o pie chart doughnut chart **⊘** Correct