✓ **Congratulations! You passed!**

Grade received 100%   To pass 100% or higher

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## Self-Reflection: Reviewing past concepts

**Total points** 1

1.

1 / 1 point

### Overview

Now that you have been introduced to working with data, you can pause for a moment and think about what you are learning. In this self-reflection, you will consider your thoughts about the data analysis process and data life cycle, then respond to brief questions.

This self-reflection will help you develop insights into your own learning and prepare you to apply your knowledge of the phases of data analysis to your data analysis toolbox. As you answer questions—and come up with questions of your own—you will consider concepts, practices, and principles to help refine your understanding and reinforce your learning. You've done the hard work, so make sure to get the most out of it: This reflection will help your knowledge stick!

### Review the phases of data

So far you've learned about the data analysis process and the data life cycle. They include the following steps:

Data Analysis Process:

- Ask
- Prepare
- Process
- Analyze
- Share
- Act

Data Life Cycle:

- Plan
- Capture
- Manage
- Analyze
- Archive
- Destroy

For a refresher on the phases of data, you can review the reading on the data analysis process and the video on the data life cycle.

### Reflection

Consider what you reviewed about the phases of data:

- What is the relationship between the data life cycle and the data analysis process? How are the two processes similar? How are they different?
- What is the relationship between the Ask phase of the data analysis process and the Plan phase of the data life cycle? How are they similar? How are they different?

Reflect on your learning and think about how you can apply the phases of data to future projects.

Now, write 2-3 sentences (40-60 words) in response to each of these questions. Type your response in the text box below.

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What is the relationship between the data life cycle and the data analysis process?

- Capture & Prepare; Both collect or bring in data from a variety of different sources.
- Analyze & Analyze; Both use the data to solve problems, make decisions, and support business goals.

How are the two processes similar?
Both processes have their similarity. For instance, the Analyze phase in the data analysis process and the data life cycle in this phase the data is used to solve problems and make data-driven decisions, to accomplish the business goals.

How are they different?
The main difference is the Destroy phase in the data life cycle in this process the data is removed data from storage and delete any shared copies of the data. In contrast, The data analysis process has the Act phase.

What is the relationship between the Ask phase of the data analysis process and the Plan phase of the data life cycle?
Ask phase & Plan phase Both are the first stage of the cycles in the data life cycle; It is decided what kind of data is needed, how it will be managed, and who will be responsible for it. On the other hand, Ask effective questions, Define the problem, Use structured thinking, Communicate with others.

How are they similar?
In both cases, one has to think about how to approach the problem.
How are they different?
The data life cycle needs to know who is going to be responsible for the data, and also needs to know what kind of data is needed to solve the problem. As opposed to the data analysis process, which wants to ask effective questions about the defined problem.

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✓ **Correct**

Great work reinforcing your learning with a thoughtful self-reflection! A good reflection on this topic would consider the phases that data goes through in its life cycle and how this impacts the data analysis process.

While the data analysis process will drive your projects and help you reach your business goals, you must understand the life cycle of your data in order to use that process. To analyze your data well, you need to

have a thorough understanding of it. Similarly, you can collect all the data you want, but the data is only useful to you if you have a plan for analyzing it.

The Plan and Ask phases both involve planning and asking questions, but they tackle different subjects. The Ask phase in the data analysis process focuses on big-picture strategic thinking about business goals. However, the Plan phase focuses on the fundamentals of the project, such as what data you have access to, what data you need, and where you're going to get it.