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Self-Reflection: Collecting data

Total points 1

1.



1 / 1 point

Overview

Now that you are familiar with the phases of the data life cycle, you can take a moment to think about your learning. In this self-reflection, you will consider your thoughts about collecting data and how data collection fits into the data life cycle.

To start, you will consider a simple scenario: discussing the data life cycle in a mock interview for a data analyst role. Then, you will respond to three brief questions. You've done the hard work to learn the basics of the data life cycle, so get the most out of it: This reflection will help your knowledge stick!

The scenario: interview for a data analyst position

Imagine that you interview for a data analyst role at a local ice cream company. The hiring manager explains that the company needs a data analyst because they want to learn more about their customers. First, they want to understand their customers' ice cream flavor preferences. Then, they will use this customer data to help make important decisions.

The hiring manager explains that they do not collect any customer data, and they don't know where to begin. The hiring manager asks you: Can you please explain how you would approach this task?

Before responding to the question, you consider each step of the data life cycle.

Recap: The data life cycle

The steps of the data life cycle are:

- **Plan:** What plans and decisions do you need to make? What data do you need to answer your question?
- **Capture:** Where does your data come from? How will you get it?
- **Manage:** How will you store your data? What should it be used for? How do you keep this data secure and protected?
- **Analyze:** How will the company analyze the data? What tools should they use?
- **Archive:** What should they do with their data when it gets old? How do they know when it's time?
- **Destroy:** Should they ever dispose of any data? If so, when and how?

Reflection

Consider your learning about the steps of the data life cycle and reflect on the hiring manager's request. Review the following questions to help guide your thinking:

- What kind of data should they gather?
- How should they gather this data?
- Where will the data live? How will they store the data?
- Once they have the data, how will they use it?
- How do they keep their data secure and protected?
- What should they do with old data? What are their options?

In the text box below, write 2-3 sentences (40-60 words) that explains your recommendation for how the ice cream company should collect customer flavor preference data.

Firstly, we should collect the finished ice cream flavors data, in order to know which flavor ends first. Along with that, gather the cash register data.

We will store these data in the clouds. For instance, AWS Cloud, Azure Cloud, etc.

The data will not live long. Due to the customer's rotations and the year's seasons, although we can still use most of these data seasonally.

All the things collected will be used to gain information about the customer's desires.

We will keep our data in the cloud. Therefore, the security of it will be in their hands.

We are going to use the old data to analyze how the customer's taste changes over time. Overmore, we can use the old data to extract new needed insight.

✔ Correct

Great work reinforcing your learning with a meaningful self-reflection! A good reflection on this topic would address that—to use their data successfully—the ice cream company must:

1. Figure out what data they need and where they can get it.
2. Collect the data, and be sure of what they will (and won't) use it for.
3. Consider how to secure the data and deal with old data that is no longer useful.

As a data analyst, these are the types of questions you should always seek to answer about your data. From considering data collection before a project begins (in the plan phase) to removing data with data erasure software (in the destroy phase), data analysts must apply these concepts to effectively approach each data project.