Week 3

Foundations: Data, Data, Everywhere

Week 3
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The wonderful world of data

G Google Career Certificates

Data has its own life cycle, and the work of data analysts often intersects with that cycle. In this part of the course, you'll learn how the data life cycle and data analysts' work both relate to your progress through this program. You'll also be introduced to applications used in the data analysis process.

⌃ Less

Learning Objectives

- Identify key software applications critical to the work of a data analyst including spreadsheets, databases, query languages, and visualization tools
- Identify relationships between the data analysis process and the courses in the Google Data Analytics Certificate
- Explain the data analysis process, making specific reference to the ask, prepare, process, analyze, share, and act phases
- Discuss the use of data in everyday life decisions
- Discuss the role of spreadsheets, query languages, and data visualization tools in data analytics
- Discuss the phases of the data life cycle

⌃ Less

Follow the data life cycle

▶ **Video:** Learning about data phases and tools   2 min   [Resume]

▶ **Video:** Phases of the data life cycle   4 min

▤ **Practice Quiz:** Self-Reflection: Collecting data   1 question

▤ **Practice Quiz:** Test your knowledge on the data life cycle   5 questions

Outlining the data analysis process

▶ **Video:** Six phases of data analysis   6 min

▥ **Reading:** The data analysis process and this program   10 min

▶ **Video:** Molly: Example of the data process   6 min

▥ **Reading:** Learning Log: Organize your data in a table   20 min

▢ **Discussion Prompt:** Important stages in the process   10 min

▤ **Practice Quiz:** Test your knowledge on the data analysis process   5 questions

The data analysis toolbox

▶ **Video:** Exploring data analyst tools   6 min

▥ **Reading:** Key data analyst tools   10 min

▥ **Reading:** Choosing the right tool for the job   10 min

Practice Quiz: Self-Reflection: Reviewing past concepts 2 questions

Practice Quiz: Test your knowledge on the data analysis toolbox 5 questions

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Weekly challenge 3

Reading: Glossary: Terms and definitions 5 min

Quiz: *Weekly challenge 3* 8 questions Due Jul 26, 1:59 AM CDT