Week 4

Foundations: Data, Data, Everywhere

Week 4

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Set up your toolbox

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As you're learning, spreadsheets, query languages, and data visualization tools are all a big part of a data analyst's job. In this part of the course, you'll learn more about the basic concepts involved and explore some examples of how these tools work.

⌃   **Less**

Learning Objectives

- Describe spreadsheets, query languages, and data visualization tools, giving specific examples
- Demonstrate an understanding of the uses, basic features, and functions of a spreadsheet
- Explain the basic concepts involved in the use of SQL including specific examples of queries
- Identify the basic concepts involved in data visualization, giving specific examples

⌃   **Less**

Mastering spreadsheet basics

▶ **Video:** The ins and outs of core data tools   2 min   **Resume**

▶ **Video:** Columns and rows and cells, oh my!   9 min

💬 **Discussion Prompt:** Spreadsheets in daily life   10 min

📋 **Practice Quiz:** Hands-On Activity: Generating a chart from a spreadsheet   2 questions

📖 **Reading:** More spreadsheet resources   10 min

💬 **Discussion Prompt:** Share your chart   10 min

📋 **Practice Quiz:** Test your knowledge on spreadsheet basics   3 questions

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Structured Query Language (SQL)

▶ **Video:** SQL in action   3 min

📖 **Reading:** More about SQL in action   10 min

📖 **Reading:** SQL Guide: Getting started   10 min

▶ **Video:** Angie: Everyday struggles when learning new skills   1 min

📋 **Practice Quiz:** Test your knowledge on SQL   5 questions

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Data visualization

▶ **Video:** Becoming a data viz whiz   5 min

📖 **Reading:** Planning a data visualization   10 min

▶ **Video:** Lilah: The power of a visualization   2 min

Video: Lilan: The power of a visualization 2 min

Discussion Prompt: Visualizations in daily life 10 min

Practice Quiz: Test your knowledge on visualizing data 3 questions

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Weekly challenge 4

Reading: Glossary: Terms and definitions 5 min

Quiz: *Weekly challenge 4* 8 questions Due Aug 2, 1:59 AM CDT