

Messages

Resources

What do you want to leam?





## Week 3

Prepare Data for Exploration

## Week 3

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## Databases: Where data lives



Google Career Certificates

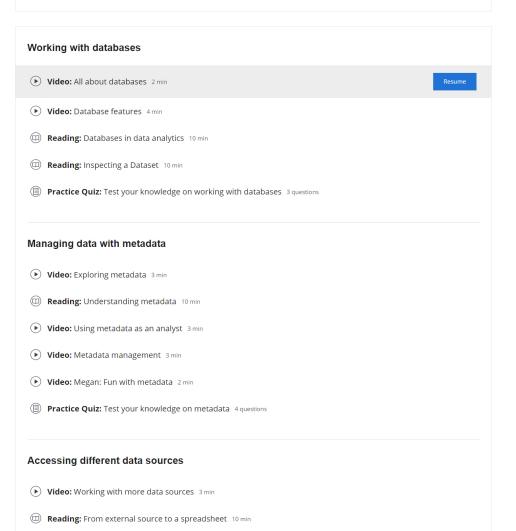
When you're analyzing data, you'll access much of the data from a database. It's where data lives. In this part of the course, you'll learn all about databases, including how to access them and extract, filter, and sort the data they contain. You'll also check out metadata to discover the different types and how analysts use them.

∧ Less

## **Learning Objectives**

- Describe databases with references to their functions and components
- Explain metadata as it relates to databases
- Discuss the importance of metadata and how it relates to the work of a data analyst
- Demonstrate an understanding of the issues and steps involved in accessing data from multiple sources
- Explain the use of filters and sorting functionality in spreadsheets
- Demonstrate an understanding of how to use spreadsheet functionality to import and inspect a given set of data
- Demonstrate an understanding of how to use SQL functions to extract data from a database

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•	Video: Importing data from spreadsheets and databases 3 min
(11)	Reading: Exploring public datasets 10 min
	<b>Practice Quiz:</b> Test your knowledge on accessing data sources 3 questions
Sor	ting and filtering
$\odot$	Video: Sorting and filtering 5 min
	<b>Practice Quiz:</b> Hands-On Activity: Clean data in spreadsheets with sorting and filtering 2 questions
	<b>Practice Quiz:</b> Self-Reflection: Considering databases and spreadsheets for sorting and filtering 1 question
	Practice Quiz: Test your knowledge on sorting and filtering 4 questions
	rking with large datasets in SQL  Video: BigQuery in action 6 min  Reading: Using BigQuery 10 min  Practice Quiz: Hands-On Activity: Introduction to BigQuery 2 questions  Practice Quiz: Hands-On Activity: Create a custom table in BigQuery 2 questions  Reading: In-depth guide: SQL best practices 10 min  Practice Quiz: Hands-On Activity: Applying SQL 2 questions  Practice Quiz: Test your knowledge on using SQL with large datasets 4 questions
*We	eekly challenge 3*
(11)	Reading: Glossary: Terms and definitions 5 min
	Quiz: *Weekly challenge 3* 8 questions