

## Week 4

Analyze Data to Answer Questions

## Week 4

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## Performing data calculations



Google Career Certificates

Calculations are one of the more common tasks that data analysts complete during analysis. In this part of the course, you'll explore formulas, functions, and pivot tables in spreadsheets and queries in SQL, all of which will help with your calculations. You'll also learn about the benefits of using SQL to manage temporary tables.



## **Learning Objectives**

- Describe the use of functions to conduct basic calculations on data in spreadsheets
- Discuss the use of pivot tables to conduct calculations on data in spreadsheets
- Demonstrate an understanding of the use of SQL queries to complete calculations
- Explain the importance of the data-validation process for ensuring accuracy and consistency in analysis
- Discuss the use of SQL queries to manage temporary tables
- Reflect on how conditional statements can be used to create complex queries and functions
- Generate multiple points of summary based on a wide variety of conditions using COUNTIF, SUMIF, MAXIF, and AVERAGEIF



Get started with data calculations	
<b>▶ Video:</b> Data calculations 2 min	Resume
<b>▶ Video:</b> Common calculation formulas 10 min	
<b>▶ Video:</b> Functions and conditions 8 min	
Reading: Functions with multiple conditions 10 min	
Practice Quiz: Hands-On Activity: Working with conditions 2 questions	
<b>▶ Video:</b> Composite functions 5 min	
Practice Quiz: Test your knowledge on data calculations 3 questions	
Pivotpivotpivot	
Pivotpivotpivot  • Video: Working with pivot tables 12 min	
Video: Working with pivot tables 12 min  O	
Video: Working with pivot tables 12 min  Reading: Using pivot tables in analysis 10 min	
Video: Working with pivot tables 12 min  Reading: Using pivot tables in analysis 10 min  Practice Quiz: Test your knowledge on using pivot tables 3 questions	
<ul> <li>▶ Video: Working with pivot tables 12 min</li> <li></li></ul>	

•	<b>Video:</b> Calculations with other statements 4 min
	Practice Quiz: Hands-On Activity: Calculations in SQL 2 questions
(P)	<b>Discussion Prompt:</b> Calculations and queries 10 min
	Practice Quiz: Test your knowledge on SQL calculations 3 questions
The	e data-validation process
lacksquare	Video: Check and recheck 5 min
(11)	Reading: Types of data validation 5 min
	<b>Practice Quiz:</b> Hands-On Activity: From spreadsheets to BigQuery 2 questions
(II)	Reading: Learning Log: Finish your data analysis checklist 20 mln
	<b>Practice Quiz:</b> Test your knowledge on data validation 3 questions
Usi	ng SQL with temporary tables
•	Video: Temporary tables 6 min
	Practice Quiz: Hands-On Activity: Create temporary tables 2 questions
lacksquare	Video: Multiple table variations 3 min
(11)	Reading: Working with temporary tables 10 min
(11)	Reading: Your intermediate guide to SQL 10 min
	<b>Practice Quiz:</b> Test your knowledge on using SQL with temporary tables 3 questions
We	ekly challenge 4
	Reading: Glossary: Terms and definitions 5 min
	Quiz: Weekly challenge 4 8 questions Due Aug 2, 1:59 AM CDT
Cou	urse challenge
	Quiz: Course challenge 13 questions Due Aug 2, 1:59 AM CDT
0	Video: Congratulations! 1 min
	Reading: Coming up next 10 min

