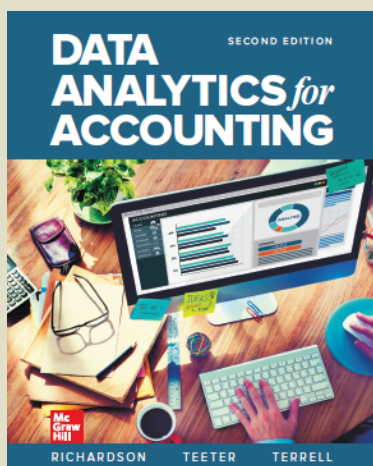


# List of Changes



## Data Analytics for Accounting 2e

Richardson, Terrell, Teeter

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available in



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Data Analytics in Accounting is designed to prepare your students with the necessary tools and skills they need to successfully perform data analytics. Using the IMPACT Cycle, the authors provide a conceptual framework to help students think through the steps needed to provide data-driven insights and recommendations. Integrated in each chapter, labs provide students with hands on experiences performing analysis using various datasets and tools. Students will perform data analysis using Excel, Access (including SQL), Tableau, IDEA, XBRL, and Weka. With customer feedback in mind, the authors incorporated three new chapters covering tax and capstone projects that focus on both high-level and low-level projects. Additional videos were integrated into Connect to provide more lecture and lab support. This is an innovative course solution that includes cutting-edge content and assessment paired with assignments that help students build the skills they need to succeed.

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# Changes to Richardson: Data Analytics for Accounting, 2e

## General Updates for the 2nd Edition

- Added additional End-of-Chapter Multiple Choice Questions and Problems throughout the text.
- Significantly revised many End-of-Chapter Problems for availability and auto-grading within Connect.
- Revised and added many new Discussion Questions in most chapters.
- Chapter by Chapter Updates

## Specific chapter changes for Data Analytics for Accounting, 2nd Edition, are as follows:

### Chapter 1

- Updated the opening vignette and statistics on Alibaba sales and use of e-commerce.
- Updated the statistics and screenshots for Lending Club Analysis.
- Revised Connect questions for problems and labs.

### Chapter 2

- Improved and clarified the discussion of relational databases, including updated figures.
- Expanded the discussion of different RDBMS (Access, SQLite, and SQL Server).
- Improved discussion of Excel and SQL. The brief introduction to how to use SQL now has its own place in a dedicated appendix at the end of the text, and it has been vastly expanded to teach beginners how to write queries.
- Expanded the discussion on data quality.
- Added a brief discussion of ETL v. ELT.
- Improved labs for clarity and a better learning experience, particularly Labs 2-1, 2-2, and 2-4.

### Chapter 3

- Reorganized chapter structure to follow the descriptive, diagnostic, predictive, and prescriptive approaches to Data Analytics.
- New exhibits and examples to illustrate analytics approaches.
- Removed previous edition flowchart for model selection.
- Additional explanation and examples of each of the methods and approaches.
- Improved labs for clarity.

### Chapter 4

- Updated the opening vignette.
- Improved the discussion on the differences between qualitative and quantitative data and the discussion of the normal distribution.
- Improved and clarified how to select a visualization based on the four chart types (qualitative vs. quantitative and declarative vs. exploratory).
- Updated the discussion on the Gartner Quadrant to take into account Gartner's January 2019 analysis of BI tools (focusing on Excel and Tableau).
- Extended the discussion on written and spoken communication.
- Added a lab to work with visualizing data and creating dashboards in Power BI to interactively compare the tool with Tableau.

### Chapter 5

- Expanded discussion on the modern data environment.
- Included additional examples of the Audit Data Standard.
- Improved and clarified content to match the focus on descriptive, diagnostic, predictive, and prescriptive analytics.
- New labs (5-1 and 5-2) that have students transform data using a common data model.
- Improved existing labs.

### Chapter 6

- Clarified chapter content to match the focus on descriptive, diagnostic, predictive, and prescriptive analytics.
- Improved labs.

# Changes to Richardson: Data Analytics for Accounting, 2e

## Chapter 7

- Clarified chapter content and provided additional new exhibits and examples, such as variance analysis.
- Improved labs.

## Chapter 8

- Reorganized chapter content to focus on financial statement analysis using descriptive, diagnostic, predictive, and prescriptive approaches.
- Added new content on common size and ratio analysis.
- Improved discussion of XBRL data.
- Improved XBRL dataset (in Lab 8-4), accessible via Microsoft Access and included options to do analysis in Excel.

## Chapter 9

- All-new chapter on tax analytics, including examples of tax data, tax analysis, tax planning, and tax visualizations.

## Chapter 10

- All-new basic project chapter that explores the order-to-cash and procure-to-pay cycles from different user perspectives.

## Chapter 11

- All-new advanced project chapter, estimating sales returns at Dillard's with three question sets highlighting descriptive and exploratory analysis, hypothesis testing, and predictive analytics.

## Appendixes

Several all-new appendixes have been created to ease the lab experience and introduce tools used or mentioned throughout the text:

**Appendix A:** Basic Statistics Tutorial.

**Appendix B:** Accessing the Excel Data Analysis Toolpak.

**Appendix C:** Excel (Formatting, Sorting, Filtering, and PivotTables).

**Appendix D:** SQL Part 1—this tutorial introduces the SQL language for extracting data and explains the following SQL syntax: SELECT, FROM, INNER JOIN, ON, WHERE, GROUP BY, HAVING, ORDER BY.

**Appendix E:** SQLite. We have added SQLite files as an option for each lab that uses Microsoft Access. This lab explains how to download SQLite and how to use the tool.

**Appendix F:** Power Query. This appendix also contains a short tutorial on transforming data using Power Query. How to access data files on the University of Arkansas' remote desktop is also discussed in this appendix.

**Appendix G:** Tableau.

**Appendix H:** SQL Part 2: On the heels of learning Tableau, students learn about more complex joins—LEFT and RIGHT.

**Appendix I:** Power BI.

**Appendix J:** Dillard's ER Diagram.

**Appendix K:** Data Dictionaries.

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