

Chapter 2

Practical Data Analysis: An Example

Before talking about the full-fledged data analysis process and diving into the details of individual methods, this chapter demonstrates some typical pitfalls one encounters when analyzing real-world data. We start our journey through the data analysis process by looking over the shoulders of two (pseudo) data analysts, Stan and Laura, working on some hypothetical data analysis problems in a sales environment. Being differently skilled, they show how things should and should not be done. Throughout the chapter, a number of typical problems that data analysts meet in real work situations are demonstrated as well. We will skip algorithmic and other details here and only briefly mention the intention behind applying some of the processes and methods. They will be discussed in depth in subsequent chapters.

2.1 The Setup

Disclaimer The data and the application scenario used in this chapter are fictional. However, the underlying problems are motivated by actual problems which are encountered in real-world data analysis scenarios. Explaining particular applicational setups would have been entirely out of the scope of this book, since in order to understand the actual issue, a bit of domain knowledge is often helpful if not required. Please keep this in mind when reading the following. The goal of this chapter is to show (and sometimes slightly exaggerate) pitfalls encountered in real-world data analysis setups and not the reality in a supermarket chain. We are painfully aware that people familiar with this domain will find some of the encountered problems strange, to say the least. Have fun.

The Data For the following examples, we will use an artificial set of data sources from a hypothetical supermarket chain. The data set consists of a few tables, which have already been extracted from an in-house database:¹

¹Often just getting the data is a problem of its own. Data analysis assumes that you have access to the data you need—an assumption which is, unfortunately, frequently not true.

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Table of Contents Practical Data Analysis

1. Understanding the eBook Practical Data Analysis
 - The Rise of Digital Reading Practical Data Analysis
 - Advantages of eBooks Over Traditional Books
2. Identifying Practical Data Analysis
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Practical Data Analysis
 - User-Friendly Interface
4. Exploring eBook Recommendations from Practical Data Analysis
 - Personalized Recommendations
 - Practical Data Analysis User Reviews and Ratings
 - Practical Data Analysis and Bestseller Lists
5. Accessing Practical Data Analysis Free and Paid eBooks

- Practical Data Analysis Public Domain eBooks
 - Practical Data Analysis eBook Subscription Services
 - Practical Data Analysis Budget-Friendly Options
6. Navigating Practical Data Analysis eBook Formats
- ePub, PDF, MOBI, and More
 - Practical Data Analysis Compatibility with Devices
 - Practical Data Analysis Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Practical Data Analysis
 - Highlighting and Note-Taking Practical Data Analysis
 - Interactive Elements Practical Data Analysis
8. Staying Engaged with Practical Data Analysis
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Practical Data Analysis
9. Balancing eBooks and Physical Books Practical Data Analysis
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Practical Data Analysis
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Practical Data Analysis
- Setting Reading Goals Practical Data Analysis
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Practical Data Analysis
- Fact-Checking eBook Content of Practical Data Analysis
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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