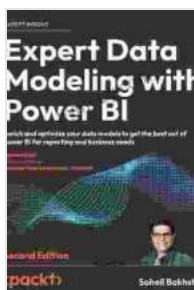# Unlock the Power of Data Modeling with Power BI: A Comprehensive Guide for Expert Data Modelers

In today's data-driven world, organizations need to leverage their data effectively to gain valuable insights and make informed decisions. Power BI, a powerful business intelligence tool, offers unparalleled capabilities for data modeling, enabling users to create robust and scalable data models that support complex data analysis and reporting.

Chapter 1: Understanding the Fundamentals of Data Modeling

This chapter provides a solid foundation for understanding the principles of data modeling. It covers the concepts of data types, relationships, and hierarchies, explaining how they contribute to building a logical and efficient data model. Furthermore, it introduces star and snowflake schemas, two common data modeling techniques that optimize performance and usability.

Expert Data Modeling with Power BI: Get the best out of Power BI by building optimized data models for reporting and business needs by Soheil Bakhshi

★★★★☆ 4.9 out of 5

Language	: English
File size	: 102575 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 612 pages

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Chapter 2: Building a Data Model from Scratch

Moving beyond theory, this chapter guides you through the practical steps of constructing a data model from raw data sources. It demonstrates how to import data, establish relationships, and create calculated columns and measures, empowering you to transform raw data into meaningful information.

Chapter 3: Advanced Data Modeling Techniques

Delve into advanced data modeling concepts such as time intelligence, calculated tables, and DAX measures. Learn how to handle time-based data effectively, create dynamic calculations, and extend the capabilities of Power BI through custom functions.
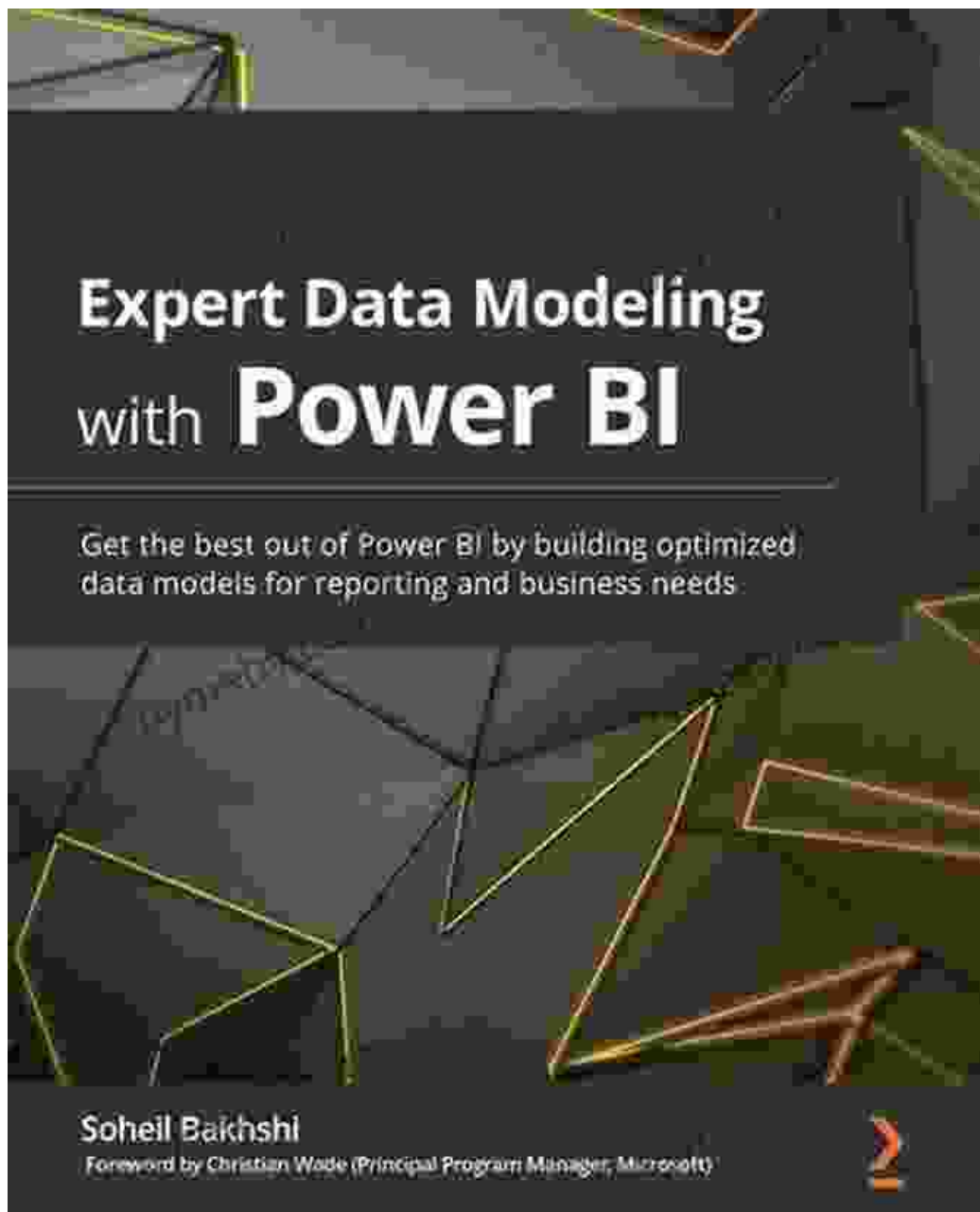
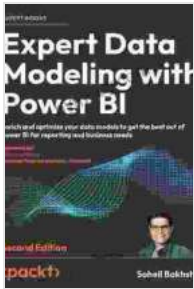## Chapter 4: Data Model Optimization and Troubleshooting

Ensuring the efficiency and accuracy of your data model is crucial for reliable analysis. This chapter explores techniques for optimizing performance, such as using incremental refresh, managing data size, and optimizing relationships. It also provides guidance on troubleshooting common data modeling issues, empowering you to resolve challenges swiftly.

Chapter 5: Best Practices and Case Studies

Gain insights from industry experts and real-world case studies. Learn about best practices for data modeling, including documentation, version control, and data governance. Explore successful applications of Power BI data modeling in various domains, demonstrating the transformative power of data.

"Expert Data Modeling with Power BI" is an invaluable resource for anyone looking to master the art of data modeling and unlock the full potential of Power BI. With its comprehensive coverage, practical examples, and insights from industry experts, this guide empowers you to build robust, scalable, and performant data models that drive informed decision-making within your organization.

Expert Data Modeling
with **Power BI**

Get the best out of Power BI by building optimized data models for reporting and business needs

Soheil Bakhshi
Foreword by Christian Wade (Principal Program Manager, Microsoft)

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