

## Analyzing Data With Power Bi And Power Pivot For Excel

*Analyzing Data With Power Bi And Power Pivot For Excel* Analyzing Data with Power BI and Power Pivot for Excel In today's data-driven world, making informed decisions requires advanced tools capable of transforming raw data into meaningful insights. Analyzing data with Power BI and Power Pivot for Excel has become a game-changer for business analysts, data professionals, and Excel enthusiasts alike. These powerful tools enable users to handle large data sets, create dynamic visualizations, and perform complex calculations efficiently within the familiar Excel environment or through dedicated dashboards. This article explores how Power BI and Power Pivot can enhance your data analysis capabilities, providing step-by-step guidance, best practices, and key features to unlock the full potential of your data.

**Understanding Power BI and Power Pivot** What is Power BI? Power BI is a comprehensive business analytics tool developed by Microsoft that allows users to connect to multiple data sources, create interactive reports, and share insights across organizations. It provides a cloud-based platform with advanced visualization options, AI-powered analytics, and real-time data monitoring. Power BI comprises several components, including Power BI Desktop, Power BI Service, and Power BI Mobile, enabling seamless data analysis and report sharing.

What is Power Pivot for Excel? Power Pivot is an add-in for Excel that enhances its data modeling and analysis capabilities. It allows users to import large datasets, establish relationships between different tables, and perform complex calculations using Data Analysis Expressions (DAX). Power Pivot transforms Excel into a powerful data modeling environment, enabling users to create PivotTables with millions of rows of data and perform advanced analysis without leaving the familiar Excel interface.

**Key Features and Benefits** Power BI Interactive dashboards with real-time data updates Wide array of visualizations including charts, maps, and gauges Seamless integration with various data sources like SQL Server, Excel, SharePoint, and cloud services AI and machine learning capabilities for predictive analytics Easy sharing and collaboration through Power BI Service Power Pivot Handling large datasets efficiently within Excel Creating complex data models with relationships and hierarchies Performing advanced calculations with DAX formulas Enhancing PivotTables with additional data analysis features Integrating seamlessly with Excel's existing tools and features

**Getting Started with Data Analysis Using Power Pivot**

**Step 1: Enabling Power Pivot in Excel** Most modern versions of Excel (Excel 2016 and later) include Power Pivot as an add-in. To enable it: Go to File > Options > Add-ins<sup>1</sup>. In the Manage box, select COM Add-ins and click Go<sup>2</sup>. Check the box next to Microsoft Power Pivot for Excel and click OK<sup>3</sup>.

**Step 2: Importing Data into Power Pivot** Power Pivot allows importing data from various sources: Excel Tables External databases (SQL Server, Access) Online services and data feeds To import data: Click on the Power Pivot tab in the Excel ribbon<sup>1</sup>. Select Manage to open the Power Pivot window<sup>2</sup>. Use the Get External Data option to import datasets<sup>3</sup>.

**Step 3: Building Data Models and Relationships** Once data is imported: Create relationships between tables to establish data connections Use the Diagram View in Power Pivot to visually manage relationships Define hierarchies and calculated columns as needed<sup>3</sup>

**Step 4: Creating Calculations with DAX** DAX (Data Analysis Expressions) is a formula language for creating calculated columns, measures, and KPIs: Measures enable aggregations like sums, averages, or custom calculations Calculated columns add new data fields based on existing data For example, to create a total sales measure: "DAX Total Sales := SUM(Sales[Amount])"

**Step 5: Analyzing Data with PivotTables** After building your model: Create PivotTables directly from the Power Pivot data model Drag fields into rows, columns, values, and filters to analyze data dynamically Apply slicers and filters for interactive analysis

**Enhancing Data Analysis with Power BI** Connecting Power BI to Your Data Sources Power BI Desktop makes connecting to diverse data sources straightforward: Open Power BI Desktop Click Get Data and select your source (Excel, SQL Server, Web, etc.) Load data into Power BI for modeling and visualization

**Creating Visualizations and Reports** Power BI offers a wide range of visualization tools: Bar and column charts Pie charts and donut charts Maps and geographic visualizations Card and KPI visualizations for key metrics Custom visuals from AppSource for specialized analysis To create a report: Drag and drop fields onto the report canvas<sup>1</sup>. Configure visualizations as needed<sup>2</sup>. Add slicers and filters for interactivity<sup>3</sup>.

**4 Sharing and Collaborating** Power BI simplifies sharing: Publish reports to Power BI Service for cloud-based access Create dashboards that compile multiple reports Share with colleagues via workspace or embed in SharePoint or Teams

**Best Practices for Data Analysis with Power BI and Power Pivot** Start with a clear understanding of your data and analysis goals Ensure data quality by cleaning and transforming data before analysis Use meaningful names for tables, columns, and measures for clarity Leverage relationships and hierarchies to model data effectively Optimize DAX formulas for performance, avoiding complex nested functions when possible Design visualizations that are insightful and easy to interpret

Regularly update data sources to keep insights current Secure sensitive data and manage access permissions appropriately Conclusion Mastering analyzing data with Power BI and Power Pivot for Excel empowers professionals to unlock deeper insights, automate reporting, and make smarter decisions faster. Power Pivot extends Excel's capabilities by transforming it into a robust data modeling environment, while Power BI provides a dedicated platform for creating interactive dashboards and sharing insights across organizations. By integrating these tools into your workflow, you can handle complex datasets with ease, produce compelling visualizations, and foster a data-driven culture within your team or organization. Whether you're a beginner or an experienced analyst, investing time in learning Power BI and Power Pivot can significantly elevate your data analysis skills and deliver tangible value to your business operations.

**Question** What are the key differences between Power BI and Power Pivot when analyzing data? Power BI is a comprehensive business analytics tool that offers interactive dashboards, data visualization, and advanced reporting capabilities, while Power Pivot is an Excel add-in focused on creating data models and performing complex data analysis within Excel. Power BI is better suited for sharing and collaboration, whereas Power Pivot is ideal for in-depth analysis within spreadsheets.

**Answer** What are some best practices for creating visualizations in Power BI after analyzing data with Power Pivot? Best practices include focusing on clear and concise visuals, choosing appropriate chart types for your data, using slicers and filters for interactivity, maintaining consistent color schemes, and ensuring data labels and titles are descriptive. Also, validate your data model and calculations before visualization for accurate insights.

**How do I connect Power BI to an Excel file with Power Pivot data models?** You can connect Power BI to an Excel file by opening Power BI Desktop, selecting 'Get Data,' choosing 'Excel,' and then selecting your Excel file. Power BI will detect the data model and tables created with Power Pivot within the Excel file, allowing you to create reports and dashboards based on that data.

**What are the common challenges when analyzing data with Power BI and Power Pivot, and how can I address them?** Common challenges include data model complexity, performance issues with large datasets, and data refresh problems. To address these, optimize data models by reducing redundancy, use efficient DAX formulas, implement data compression techniques, and schedule regular data refreshes. Additionally, ensure proper relationships and data quality for accurate analysis.

**Analyzing Data with Power BI and Power Pivot for Excel: A Comprehensive Guide** In the realm of data analysis, leveraging the right tools can significantly enhance your insights and decision-making process. Among the most powerful tools available for business intelligence are Power BI and Power Pivot for Excel. These tools enable users to import, model, analyze, and visualize large datasets with ease, transforming raw data into meaningful insights. Whether you're an Excel power user or venturing into more advanced data analysis, understanding how to effectively utilize Power BI and Power Pivot can elevate your data game to new heights.

**--- Understanding Power Pivot and Power BI: The Foundations of Data Analysis** What is Power Pivot? Power Pivot is an Excel add-in that allows users to perform powerful data modeling and analysis within Excel. It extends the traditional capabilities of Excel by enabling the creation of relationships between different tables, defining complex calculations with Data Analysis Expressions (DAX), and handling large datasets beyond the typical Excel row limits. What is Power BI? Power BI is a standalone business intelligence platform developed by Microsoft. It provides a suite of tools for data ingestion, modeling, visualization, and sharing reports and dashboards. Power BI Desktop, the primary development environment, integrates seamlessly with Power Pivot, allowing users to build comprehensive data models and visualizations that can be published and shared across organizations.

**-- Setting Up Your Data Environment** Analyzing Data With Power Bi And Power Pivot For Excel

**6 Importing Data into Power Pivot** Before diving into analysis, you must import your data into Power Pivot:

- **Connect to Data Sources:** Power Pivot supports a wide range of data sources such as Excel tables, SQL Server, Access, SharePoint, and even online sources like Azure and web APIs.
- **Load Data Efficiently:** Use the Data Model feature to load large datasets directly into Power Pivot, avoiding the limitations of traditional Excel sheets.

**Building Data Models** Once data is imported:

- **Create Relationships:** Establish relationships between tables based on common keys, enabling complex multidimensional analysis.
- **Manage Data Types:** Ensure that each column has the correct data type for accurate calculations.

**Clean and Transform Data:** Use Power Query (integrated with Power BI and Power Pivot) to clean, filter, and transform data before analysis.

**--- Mastering Data Analysis with Power Pivot Utilizing DAX for Calculations** Data Analysis Expressions (DAX) are formulas used to create calculated columns, measures, and calculated tables:

- **Calculated Columns:** Add new data based on existing columns (e.g., concatenating first and last names).
- **Measures:** Create dynamic calculations (e.g., total sales, average profit) that respond to filter context.
- **Time Intelligence:** Implement calculations like Year-to-Date (YTD), moving averages, or period comparisons.

**Best Practices for DAX**

- **Understand Filter Context:** Recognize how filters affect your calculations.
- **Optimize Performance:** Use efficient DAX formulas and avoid unnecessary calculated columns.
- **Validate Results:** Cross-check calculations with raw data to ensure correctness.

**Analyzing Data with**

PivotTables Power Pivot allows you to create PivotTables based on your data model: - Drag and Drop Fields: Summarize data by categories, time periods, or other dimensions. - Apply Filters and Slicers: Enable interactive filtering to explore different scenarios. - Create Hierarchies: Organize fields into hierarchies for drill- down analysis. --- Enhancing Visual Analysis with Power BI Building Interactive Reports Power BI enables the creation of rich, interactive dashboards: - Choose Visualizations: Use bar charts, line graphs, pie charts, maps, and custom visuals to represent data effectively. - Add Slicers and Filters: Allow users to filter data dynamically. - Design for Clarity: Use consistent color schemes, labels, and layouts to improve readability. Sharing and Collaboration Power BI's cloud-based platform allows for easy sharing: - Publish Reports: Share dashboards via Power BI Service. - Schedule Data Refreshes: Keep reports up-to- date automatically. - Collaborate: Enable team members to comment and collaborate directly within reports. --- Advanced Techniques for Data Analysis Combining Power BI and Power Pivot Leverage the strengths of both tools: - Use Power Pivot to build complex data models within Excel. - Export or publish these models to Power BI for advanced visualization and sharing. Using Data Analysis Tools - Forecasting: Utilize built-in forecasting algorithms in Power BI visuals. - What-If Analysis: Create parameters to simulate different scenarios. - Trend Analysis: Identify patterns over time using line charts and trend lines. Automating and Scaling Your Analysis - Power BI Dataflows: Automate data ingestion and transformation pipelines. - Excel Macros and VBA: Automate repetitive Analyzing Data With Power Bi And Power Pivot For Excel 7 tasks within Excel. - Integration with Other Tools: Connect with R, Python, or Azure Machine Learning for advanced analytics. --- Practical Tips for Effective Data Analysis - Start with Clear Objectives: Define what questions you want your data to answer. - Maintain Data Quality: Ensure your data is accurate, complete, and timely. - Document Your Data Model: Keep track of relationships, calculated fields, and assumptions. - Iterate and Refine: Continuously improve your models and visualizations based on feedback. - Stay Updated: Keep abreast of new features and best practices in Power BI and Power Pivot. --- Conclusion Analyzing data with Power BI and Power Pivot for Excel empowers professionals to unlock insights from their data efficiently and effectively. By mastering data modeling, DAX calculations, and visualizations, users can create compelling reports that inform strategic decisions. Whether leveraging Power Pivot within Excel or building interactive dashboards with Power BI, the ability to analyze data comprehensively is a vital skill in today's data-driven landscape. Embrace these tools, follow best practices, and continuously explore new techniques to elevate your data analysis capabilities. Power BI, Power Pivot, data analysis, Excel, data visualization, DAX formulas, data modeling, business intelligence, pivot tables, data reporting

Mastering Microsoft Power BIGetting started with Power Query in Power BI and ExcelIntroducing Microsoft Power BIMicrosoft Power BI Quick Start GuideData Analysis with Microsoft Power BIMaster Your Data with Power Query in Excel and Power BIMicrosoft Power BI Essentials You Always Wanted to KnowMicrosoft Power BI Complete ReferenceSupercharge Power BIANalyzing Data with Power BI and Power Pivot for ExcelData Modeling with Microsoft Power BIYour Excel Survival Kit 2nd EditionPro Power BI ArchitectureAzure AI Services at Scale for Cloud, Mobile, and EdgeMicrosoft Teams For DummiesLearn Power BIMastering Microsoft Power BIData Visualization with Microsoft Power BIMicrosoft Power BI CookbookMicrosoft Power BI for Beginners: A Step-by-Step Guide to Data Visualization and Business Intelligence Greg Deckler Reza Rad Alberto Ferrari Devin Knight Brian Larson MrExcel's Holy Macro! Books Dr Pillai Devin Knight MrExcel's Holy Macro! Books Alberto Ferrari Markus Ebrenmueller-Jensen Anne Walsh Reza Rad Simon Bisson Rosemarie Withee Greg Deckler Brett Powell Alex Kolokolov Greg Deckler Dizzy Davidson Mastering Microsoft Power BI Getting started with Power Query in Power BI and Excel Introducing Microsoft Power BI Microsoft Power BI Quick Start Guide Data Analysis with Microsoft Power BI Master Your Data with Power Query in Excel and Power BI Microsoft Power BI Essentials You Always Wanted to Know Microsoft Power BI Complete Reference Supercharge Power BI Analyzing Data with Power BI and Power Pivot for Excel Data Modeling with Microsoft Power BI Your Excel Survival Kit 2nd Edition Pro Power BI Architecture Azure AI Services at Scale for Cloud, Mobile, and Edge Microsoft Teams For Dummies Learn Power BI Mastering Microsoft Power BI Data Visualization with Microsoft Power BI Microsoft Power BI Cookbook Microsoft Power BI for Beginners: A Step-by-Step Guide to Data Visualization and Business Intelligence Greg Deckler Reza Rad Alberto Ferrari Devin Knight Brian Larson MrExcel's Holy Macro! Books Dr Pillai Devin Knight MrExcel's Holy Macro! Books Alberto Ferrari Markus Ebrenmueller-Jensen Anne Walsh Reza Rad Simon Bisson Rosemarie Withee Greg Deckler Brett Powell Alex Kolokolov Greg Deckler Dizzy Davidson

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any data analytics solution requires data population and preparation with the rise of data analytics solutions these years the need for this data preparation becomes even more essential power bi is a helpful data analytics tool that is used worldwide by many users as a power bi or microsoft bi developer it is essential to learn how to prepare the data in the right shape and format needed you need to learn how to clean the data and build it in the structure that can be modeled easily and used high performant for visualization data preparation and transformation is the backend work if you consider building a bi system as going to a restaurant and ordering food the visualization is the food you see on the table nicely presented the quality the taste and everything else comes from the hard work in the kitchen the part that you don't see or the backend in the world of power bi is power query you may be already familiar with some other data preparation and data transformation technologies such as t sql ssis azure data factory informatica etc power query is a data transformation engine capable of preparing the data in the format you need the good news is that to learn power query you don't need to know programming power query is for citizen data engineers however this doesn't mean that power query is not capable of performing advanced transformation unfortunately because power query and data preparation is the kitchen work of the bi system many power bi users skip the learning of it and become aware of it somewhere along their bi project once they get familiar with it they realize there are tons of things they could have implemented easier faster and in a much more maintainable way using power query in other words they learn mastering power query is the key skill toward mastering power bi we have been working with power query since the very early release of that in 2013 named data explorer and wrote blog articles and published videos about it the number of articles we published under this subject easily exceeds hundreds through those articles some of the fundamentals and key learnings of power query are explained we thought it is good to compile some of them in a book a good analytics solution combines a good data model good data preparation and good analytics and calculations reza has written another book about the basics of modeling in power bi and a book on power bi dax simplified this book is covering the data preparation and transformations aspects of it this book is for you if you are building a power bi solution even if you are just visualizing the data preparation and transformations are an essential part of analytics you do need to have the cleaned and prepared data ready before visualizing it this book is compiled into a series of two books which will be followed by a third book later getting started with power query in power bi and excel this book mastering power query in power bi and excel already available to be purchased separately power query dataflows will be published later although this book is written for power bi and all the examples are presented using the power bi however the examples can be easily applied to excel dataflows and other tools and services using power query

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bring your data to life with this accessible yet fast paced introduction to power bi now in color get with your book pdf copy ai assistant and next gen reader free key features learn faster with practical examples of the latest features of power bi including navigator buttons column level security visualizing goals and more migrate your existing excel and data analysis skills to power bi build accurate analytical models reports and dashboards now in color book description updated with the latest features and improvements in power bi this fast paced yet comprehensive guide will help you master the core concepts of data visualization quickly you'll learn how to install power bi design effective data models and build basic dashboards and visualizations to help you make better business decisions this new edition will also help you bridge the gap between ms excel and power bi throughout this book you'll learn how to obtain data from a variety of sources and clean it using the power query editor you'll also start designing data models to navigate and explore relationships within your data and building dax formulas to make data easier to work with visualizing data is a key element of this book so there's an emphasis on helping you get to grips with data visualization styles and enhanced digital storytelling as you progress you'll start building your own dataflows gain an understanding of the common data model and automate dataflow refreshes to eradicate data cleaning inefficiency you'll learn how to administer your organization's power bi environment so that deployment can be made seamless data refreshes can run properly and security can be fully implemented by the end of this power bi book you'll know how to get the most out of power bi for better business intelligence what you will learn connect to data sources using import directquery and live connection options use power query editor for data transformation and data cleansing processes and write m and r scripts and dataflows to do the same in the cloud design effective reports with built in and custom visuals to optimize user experience implement row level and column level security in your dashboards administer a power bi cloud tenant for your organization use built in ai capabilities to enhance power bi data transformation techniques deploy your power bi desktop files into power bi report server who this book is for this book is for aspiring business intelligence and data professionals with a basic understanding of bi concepts who want to learn power bi quickly complete beginners with no bi background can also get plenty of useful information from this book

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master data transformation techniques using power query in excel and power bi learn to manage optimize and automate your data workflows with practical examples key features comprehensive coverage of power query from basics to advanced techniques seamless integration and movement of queries between excel and power bi hands on practice with real world data scenarios to build your confidence book description this book equips you with the essential skills to master power query in excel and power bi starting with the basics you'll learn query management data types and error handling establishing a solid foundation you'll explore techniques to move queries between excel and power bi ensuring seamless workflow integration as the guide progresses you'll delve into data import methods from flat files excel web based and relational sources while performing key transformations like appending combining and reshaping data advanced topics such as conditional logic power query values and m language fundamentals will enhance your ability to customize and optimize queries the book also covers the creation of parameters and custom functions alongside applying sophisticated date and time techniques finally you'll learn to optimize query performance and automate data refreshes ensuring your analysis remains current by the end of this guide you'll have the confidence and expertise to effectively transform and manage data using power query significantly enhancing your data analysis capabilities in excel and power bi what you will learn understand power query fundamentals manage queries effectively transform and cleanse data

import data from diverse sources utilize advanced features like m language automate and optimize data processes who this book is for ideal for data analysts excel users and power bi enthusiasts looking to streamline data processing readers should have a basic understanding of excel and data handling concepts no prior knowledge of power query is required

master data transformation visualizations ai integration reporting for smarter business insights transform data into actionable insights harnessing the potential of power bi for organizational success discover how to import and transform data in power bi learn to create accessible visualizations understand how to leverage advanced analytics learn to choose the right chart and apply smart filters turn data into insight insight into action your journey with power bi starts here whether you re a manager analyst entrepreneur or an aspiring data professional microsoft r power bi essentials you always wanted to know microsoft power bi essentials is your trusted companion to learn microsoft power bi from the ground up this book offers a step by step journey to building powerful data models and creating interactive dashboards for both technical and non technical users starting with the basics of digital storytelling author renowned researcher and academician dr sini v pillai guides you to explore why visualizing data is essential in today s business environment and how power bi equips you to prepare and present data in ways that bring key insights to life you ll learn to connect to data from excel sql server and the transform it and integrate artificial intelligence ai and r scripts for data modeling and sentiment analysis finally you ll dive into power bi desktop and the power bi service to create publish and manage reports and dashboards microsoft power bi essentials enables you to transform static reports into dynamic storytelling tools using power bi features like bookmarks drill throughs selection pane and spotlight features it is a practical resource that bridges the gap between data and strategic insights for impactful decision making and growth the book also comes with ready to use downloadable templates and online resources for professionals in the field it is part of the self learning management series designed to help you learn essential management lessons

design develop and master efficient power bi solutions for impactful business insights key featuresget to grips with the fundamentals of microsoft power bi combine data from multiple sources create visuals and publish reports across platformsunderstand power bi concepts with real world use casesbook description microsoft power bi complete reference guide gets you started with business intelligence by showing you how to install the power bi toolset design effective data models and build basic dashboards and visualizations that make your data come to life in this learning path you will learn to create powerful interactive reports by visualizing your data and learn visualization styles tips and tricks to bring your data to life you will be able to administer your organization s power bi environment to create and share dashboards you will also be able to streamline deployment by implementing security and regular data refreshes next you will delve deeper into the nuances of power bi and handling projects you will get acquainted with planning a power bi project development and distribution of content and deployment you will learn to connect and extract data from various sources to create robust datasets reports and dashboards additionally you will learn how to format reports and apply custom visuals animation and analytics to further refine your data by the end of this learning path you will learn to implement the various power bi tools such as on premises gateway together along with staging and securely distributing content via apps this learning path includes content from the following packt products microsoft power bi quick start guide by devin knight et al mastering microsoft power bi by brett powellwhat you will learnconnect to data sources using both import and directquery optionsleverage built in and custom visuals to design effective reportsadminister a power bi cloud tenant for your organizationdeploy your power bi desktop files into the power bi report serverbuild efficient data retrieval and transformation processeswho this book is for microsoft power bi complete reference guide is for those who want to learn and use the power bi features to extract maximum information and make intelligent decisions that boost their business if you have a basic understanding of bi concepts and want to learn how to apply them using microsoft power bi then learning path is for you it consists of real world examples on power bi and goes deep into the technical issues covers additional protocols and much more

master the power of dax and data modeling in power bi to elevate your data analysis skills this comprehensive guide covers essential functions advanced techniques and practical examples for mastering business analytics key features comprehensive coverage of dax functions step by step progression from basics to advanced topics practical examples to reinforce learning book descriptionthis guide is designed to empower power bi users with advanced skills in data modeling and dax it begins with an introduction to the foundational concepts of data modeling where you ll learn how to structure your data for optimal performance and analysis you ll then progress to mastering essential dax functions including iterators filters and time intelligence these chapters will help you create sophisticated calculations that bring your data to life as you advance the guide delves into more complex topics like evaluation context context transition and disconnected tables these

concepts are crucial for understanding how dax formulas interact with your data enabling you to build more accurate and insightful reports the guide also covers practical applications such as transferring dax skills to excel and using advanced power bi features like analyze in excel and cube formulas by the end of this book you ll have a deep understanding of both data modeling and dax equipping you with the knowledge to tackle complex data challenges whether you re working on business intelligence projects or enhancing your data analysis capabilities this guide will give you the tools to excel in power bi what you will learn create and load data models master dax functions utilize filter propagation implement time intelligence transition context efficiently transfer dax skills to excel who this book is for this book is ideal for data analysts business intelligence professionals and power bi users looking to deepen their understanding of dax and data modeling a basic understanding of power bi and familiarity with data analysis concepts are recommended

renowned dax experts alberto ferrari and marco russo teach you how to design data models for maximum efficiency and effectiveness how can you use excel and power bi to gain real insights into your information as you examine your data how do you write a formula that provides the numbers you need the answers to both of these questions lie with the data model this book introduces the basic techniques for shaping data models in excel and power bi it s meant for readers who are new to data modeling as well as for experienced data modelers looking for tips from the experts if you want to use power bi or excel to analyze data the many real world examples in this book will help you look at your reports in a different way like experienced data modelers do as you ll soon see with the right data model the correct answer is always a simple one by reading this book you will gain an understanding of the basics of data modeling including tables relationships and keys familiarize yourself with star schemas snowflakes and common modeling techniques learn the importance of granularity discover how to use multiple fact tables like sales and purchases in a complex data model manage calendar related calculations by using date tables track historical attributes like previous addresses of customers or manager assignments use snapshots to compute quantity on hand work with multiple currencies in the most efficient way analyze events that have durations including overlapping durations learn what data model you need to answer your specific business questions about this book for excel and power bi users who want to exploit the full power of their favorite tools for bi professionals seeking new ideas for modeling data

data modeling is the single most overlooked feature in power bi desktop yet it s what sets power bi apart from other tools on the market this practical book serves as your fast forward button for data modeling with power bi analysis services tabular and sql databases it serves as a starting point for data modeling as well as a handy refresher author markus ehrenmueller jensen founder of savory data shows you the basic concepts of power bi s semantic model with hands on examples in dax power query and t sql if you re looking to build a data warehouse layer chapters with t sql examples will get you started you ll begin with simple steps and gradually solve more complex problems this book shows you how to normalize and denormalize with dax power query and t sql apply best practices for calculations flags and indicators time and date role playing dimensions and slowly changing dimensions solve challenges such as binning budget localized models composite models and key value with dax power query and t sql discover and tackle performance issues by applying solutions in dax power query and t sql work with tables relations set operations normal forms dimensional modeling and etl

you have just been promoted into a job that requires more excel skills than ever you are floundering drowning in a sea of spreadsheets this book walks you through the program in an accessible way everything from vlookups pivot tables and power query to power bi and power pivot the excel survival kit is small enough to slip into your purse and carry with you to the office

architect and deploy a power bi solution this book will help you understand the many available options and choose the best combination for hosting developing sharing and deploying a power bi solution within your organization pro power bi architecture provides detailed examples and explains the different methods available for sharing and securing power bi content so that only intended recipients can see it commonly encountered problems you will learn to handle include content unexpectedly changing while users are in the process of creating reports and building analysis methods of sharing analyses that don t cover all the requirements of your business or organization and inconsistent security models the knowledge provided in this book will allow you to choose an architecture and deployment model that suits the needs of your organization ensuring that you do not spend your time maintaining your solution but on using it for its intended purpose and gaining business value from mining and analyzing your organization s data what you ll learn architect and administer enterprise level power bi solutions choose the right sharing method for your power bi solution create and manage environments for development testing and production implement row level security in multiple ways to secure your data save money by choosing the right licensing plan select a

*suitable connection type live connection directquery or scheduled refresh for your use case set up a power bi gateway to bridge between on premises data sources and the power bi cloud service who this book is for data analysts developers architects and managers who want to leverage power bi for their reporting solution*

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