

# Supercharge Power BI Power BI Is Better When You

Getting started with Power Query in Power BI and Excel Learning Microsoft Power BI Microsoft Power BI Quick Start Guide Mastering Microsoft Power BI Data Analysis with Microsoft Power BI Data Visualization with Microsoft Power BI Introducing Microsoft Power BI Power BI for the Excel Analyst Data Modeling with Microsoft Power BI Microsoft Power BI For Dummies Master Your Data with Power Query in Excel and Power BI Supercharge Power BI Extreme DAX Microsoft Power BI Dashboards Step by Step Power BI DAX Simplified Microsoft Power BI Complete Reference Learn Microsoft Power BI Microsoft Power BI Demystified Microsoft Power BI for Beginners: A Step-by-Step Guide to Data Visualization and Business Intelligence Expert Data Modeling with Power BI Reza Rad Jeremy Arnold Devin Knight Greg Deckler Brian Larson Alex Kolokolov Alberto Ferrari Wyn Hopkins Markus Ehrenmueller-Jensen Jack A. Hyman MrExcel's Holy Macro! Books MrExcel's Holy Macro! Books Michiel Rozema Errin O'Connor Reza Rad Devin Knight Greg Deckler Elijah Falode Dizzy Davidson Soheil Bakhshi

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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

microsoft power bi is a data analytics and visualization tool powerful enough for the most demanding data scientists but accessible enough for everyday use for anyone who needs to get more from data the market has many books designed to train and equip professional data analysts to use power bi but few of them make this tool accessible to anyone who wants to get up to speed on their own this streamlined intro to power bi covers all the foundational aspects and features you need to go from zero to hero with data and visualizations whether you work with large complex datasets or work in microsoft excel author jeremey arnold shows you how to teach yourself power bi and use it confidently as a regular data analysis and reporting tool you ll learn how to import manipulate visualize and investigate data in power bi approach solutions for both self service and enterprise bi use power bi in your organization s business intelligence strategy produce effective reports and dashboards create environments for sharing reports and managing data access with your team determine the right solution for using power bi offerings based on size security and computational needs

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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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explore create and manage highly interactive data visualizations using microsoft power bi extract meaningful business insights from your disparate enterprise data using the detailed information contained in this practical guide written by a recognized bi expert and bestselling author data analysis with microsoft power bi teaches you the skills you need to interact with author and maintain robust visualizations and custom data models hands on exercises based on real life business scenarios clearly demonstrate each technique publishing your results to the power bi service powerbi.com and power bi report server are also fully covered inside you will discover how to understand business intelligence and self service analytics explore the tools and features of microsoft power bi create and format effective data visualizations incorporate advanced interactivity and custom graphics build and populate accurate data models transform data using the power bi query editor work with measures calculated columns and tabular models write powerful dax language scripts share content on the powerbi service powerbi.com store your visualizations on the power bi report server

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facilitates the perception of data this book helps you understand how interactive visuals can be useful for your business the basic rules for building charts exceptions from general rules based on real business cases how to choose the right chart for every business case how to create interactive visuals in power bi how to design corporate identity visuals

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the essential guide for getting started with power bi power bi is an amazing cloud based business analytics service provided by microsoft that allows people to transform data into rich interactive visual reports that presents a 360 degree business view and improves business decision making this book is designed to get the excel analyst started with power bi touching on power query and power pivot

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

reveal the insights behind your company's data with Microsoft Power BI. Microsoft Power BI allows intuitive access to data that can power intelligent business decisions and insightful strategies. The question is: do you have the Power BI skills to make your organization's numbers spill their secrets in Microsoft Power BI for Dummies? Expert lecturer, consultant, and author Jack Hyman delivers a start-to-finish guide to applying the Power BI platform to your own firm's data. You'll discover how to start exploring your data sources, build data models, visualize your results, and create compelling reports that motivate decisive action. Tackle the basics of Microsoft Power BI, and when you're done with that, move on to advanced functions like accessing data with DAX and app integrations. Guide your organization's direction and decisions with rock-solid conclusions based on real-world data, impress your bosses, and confidently lead your direct reports with exciting insights drawn from Power BI's useful visualization tools. It's one thing for your company to have data at its disposal; it's another thing entirely to know what to do with it. Microsoft Power BI for Dummies is the straightforward blueprint you need to apply one of the most powerful business intelligence tools on the market to your firm's existing data.

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 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

discover the true power of dax and build advanced dax solutions for practical business scenarios key featuresolve complex business problems within microsoft bi tools including power bi sql server and exceldevelop a conceptual understanding of critical business data modeling principleslearn the subtleties of power bi data visualizations evaluation context context transition and filteringbook description this book helps business analysts generate



powerful and sophisticated analyses from their data using DAX and get the most out of Microsoft Business Intelligence tools. Extreme DAX will first teach you the principles of business intelligence, good model design, and how DAX fits into it all. Then you'll launch into detailed examples of DAX in real-world business scenarios such as inventory calculations, forecasting, intercompany business, and data security. At each step, senior DAX experts will walk you through the subtleties involved in working with Power BI models and common mistakes to look out for as you build advanced data aggregations. You'll deepen your understanding of DAX functions, filters, and measures and how and when they can be used to derive effective insights. You'll also be provided with PBIX files for each chapter so that you can follow along and explore in your own time what you will learn. Understand data modeling concepts and structures before you start working with DAX. Grasp how relationships in Power BI models are different from those in RDBMSes. Secure aggregation levels, attributes, and hierarchies using path functions and row-level security. Get to grips with the crucial concept of context. Apply advanced context and filtering functions including `TREATAS`. Generate and summarize. Explore dynamically changing visualizations with helper tables and dynamic labels and axes. Work with week-based calendars and understand standard time intelligence. Evaluate investments intelligently with the `XNPV` and `XIRR` financial DAX functions. Who this book is for: Extreme DAX is written for analysts with a working knowledge of DAX in Power BI or other Microsoft analytics tools. It will help you upgrade your knowledge and work with analytical models more effectively. So you'll need practical experience with DAX before you can get started.

Your hands-on guide to building effective Power BI dashboards. Expand your expertise and teach yourself how to create world-class Power BI business analysis dashboards that bring data to life for better decision making. If you're an experienced business intelligence professional or manager, you'll get all the guidance, examples, and code you need to succeed. Even if you've never used Power BI before, successfully design, architect, and implement Power BI in your organization. Take full advantage of any Microsoft Power BI platform, including Power BI Premium. Make upfront decisions that position your Power BI project for success. Build rich, live dashboards to monitor crucial data from across your organization. Aggregate data and data elements from numerous internal and external data sources. Develop dynamic visualizations including charts, maps, and graphs. Bring data to life with stunning interactive reports. Ensure dashboard security and compliance. Drive user adoption through effective training.

dax is the language of data analysis in microsoft power bi azure analysis services and excel power pivot dax is a powerful language that can quickly empower you to analyze year over year or rolling 12 months calculations it is rare to find an analytics solution using microsoft technologies especially power bi that doesn't require some calculations to be written by dax as a power bi or microsoft bi developer it is essential to learn this language and master it learning a language is not just learning the structure and functions it is learning how where and when to use it so that you can solve real world problems with it in my training and consulting experience on power bi i realized that dax is the weak point for many power bi users dax itself is not a complex language it is merely a language of expression the complexity of learning dax is not the formula or the functions it is how to use it in real world scenarios and how it performs on a dataset or visual i have been writing many blogs about dax for many years my blog articles are all coming from my experience working with power bi i found it helpful to compile them all in a book because my blog articles practically explain things i thought it better to title it as a practical way of learning dax by examples indeed there are books articles and microsoft documentation on how each function works where and how however learning these through an example would bring a new way of understanding it a good analytics solution is a combined outcome of a good data model good data preparation and good analytics and calculations i have written another book about the basics of modeling in power bi this book is covering the calculation and dax aspects of it this book is for you if you are building a power bi solution even if you are just visualizing the data calculations are an essential part of analytics you do need to have the calculation ready before visualizing it this is not a book to explain every single function in dax the approach in this book is to have practical examples every chapter is based on real world examples of using a combination of functions to solve a challenge you can start from any chapter and finish at any chapter the order of chapters suggested in this book is just a guideline to help you have a smooth flow of topics each chapter can be read without needing other chapters examples of this book are designed in a way that you can use the learning straight away in your power bi file

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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 powell what you will learn connect to data sources using both import and directquery options leverage built in and custom visuals to design effective reports administer a power bi cloud tenant for your organization deploy your power bi desktop files into the power bi report server build efficient data retrieval and transformation processes who 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

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## Introduction

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