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Language

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Query M Formula  
Language

***Get a handle on the world's  
most popular cloud  
bookkeeping and accounting***

*Page 1/355*

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***app QuickBooks Online comes second-to-none in providing simple and powerful bookkeeping and accounting features that can streamline your business, make you more profitable, and organize your company's finances. But if***

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***you're not quite sure how to make it all work, or if you just want to get a grip on its newest features, QuickBooks Online For Dummies is the companion you need to make the most of your favorite cloud accounting software.***

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***This book walks you through each and every step of creating an invoice or credit memo, recording a sale, paying bills, setting up and managing your inventory, and tracking your business checkbook and credit cards. It***

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***also includes: New updates on exporting data to Microsoft Excel or Google Sheets so that you can analyze your business data new ways. Stepwise walkthroughs of how to install and set up a new instance of QuickBooks Online for your***

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***business or personal accounts. Exclusive tips for bookkeepers and accountants working with clients in QuickBooks Online, including new techniques for automating monthly reports that you create in Excel from***

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***data that you export from  
QuickBooks. Whether you're a  
small business owner, an  
accountant, a bookkeeper, or  
just someone trying to help  
their boss keep up with their  
accounting records,  
QuickBooks Online For***

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***Dummies is the resource you need to make the most popular cloud bookkeeping and accounting software in the world work for you! This comprehensive and authoritative guide will teach you the DAX language for***



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***business intelligence, data modeling, and analytics. Leading Microsoft BI consultants Marco Russo and Alberto Ferrari help you master everything from table functions through advanced code and model optimization.***

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***You'll learn exactly what happens under the hood when you run a DAX expression, how DAX behaves differently from other languages, and how to use this knowledge to write fast, robust code. If you want to leverage all of DAX's***

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***remarkable power and flexibility, this no-compromise “deep dive” is exactly what you need. Perform powerful data analysis with DAX for Microsoft SQL Server Analysis Services, Excel, and Power BI Master core DAX concepts,***

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***including calculated columns,  
measures, and error handling  
Understand evaluation  
contexts and the CALCULATE  
and CALCULATETABLE  
functions Perform time-based  
calculations: YTD, MTD,  
previous year, working days,***

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***and more Work with expanded tables, complex functions, and elaborate DAX expressions Perform calculations over hierarchies, including parent/child hierarchies Use DAX to express diverse and unusual relationships***

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***Measure DAX query  
performance with SQL Server  
Profiler and DAX Studio  
Gain the knowledge and skills  
needed to become a certified  
Microsoft Power BI data  
analyst and get the most out  
of Power BI Key Features •***

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***Get the skills you need to pass the PL-300 certification exam with confidence • Create and maintain robust reports and dashboards to enable a data-driven enterprise • Test your new BI skills with the help of practice questions Book***

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***Description Microsoft Power BI enables organizations to create a data-driven culture with business intelligence for all. This guide to achieving the Microsoft Power BI Data Analyst Associate certification will help you take control of***



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***your organization's data and pass the exam with confidence. From getting started with Power BI to connecting to data sources, including files, databases, cloud services, and SaaS providers, to using Power BI's***

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***built-in tools to build data models and produce visualizations, this book will walk you through everything from setup to preparing for the certification exam. Throughout the chapters, you'll get detailed***

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***explanations and learn how to analyze your data, prepare it for consumption by business users, and maintain an enterprise environment in a secure and efficient way. By the end of this book, you'll be able to create and maintain***

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***robust reports and dashboards, enabling you to manage a data-driven enterprise, and be ready to take the PL-300 exam with confidence. What you will learn • Connect to and prepare data from a variety of***

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***sources • Clean, transform,  
and shape your data for  
analysis • Create data models  
that enable insight creation •  
Analyze data using Microsoft  
Power BI's capabilities •  
Create visualizations to make  
analysis easier • Discover how***

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*to deploy and manage*

*Microsoft Power BI assets*

*Who this book is for This book is for data analysts and BI professionals who want to become more competent in Microsoft Power BI. Although the content in this book will*

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***help you pass the PL-300 exam, there are plenty of other practical applications beyond exam preparation in the chapters. No prior experience with Power BI is needed.***

***Power Query is the amazing***

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***new data cleansing tool in both Excel and Power BI Desktop. Do you find yourself performing the same data cleansing steps day after day? Power Query will make it faster to clean your data the first time. While Power Query***



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***is powerful, the interface is subtle—there are tools hiding in plain sight that are easy to miss. Go beyond the obvious and take Power Query to new levels with this book.***

***Mastering Power Query in Power BI and Excel***

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***Introducing Microsoft Power  
BI***

***A comprehensive, step-by-step  
guide for beginners to learn  
real-world business  
intelligence***

***Excel Power Pivot and Power  
Query For Dummies***

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***A Guide to the M Language in  
Excel Power Query  
Take your Power BI and  
Microsoft data analytics skills  
to the next level  
Getting, transforming, and  
preparing the data. The first  
step towards data analysis***

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**Power Query for Power BI and Excel is a book for people who are tired of copying and pasting data into Excel worksheets. Power Query, part of the Microsoft Power BI suite, is a tool that automates the process of getting data into Excel and will save you hours of**

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**dull, repetitive, and error-prone work! Power Query makes it easy to extract data from many different data sources, filter that data, aggregate it, clean it and perform calculations on it, finally loading that data into either your worksheet or directly into the new Excel 2013**

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**Data Model used by Power Pivot.  
This concise, practical book  
provides a complete guide to  
Power Query and how to use it to  
solve all of your Excel data-loading  
problems. Power Query for Power  
BI and Excel goes well beyond the  
surface of what Power Query can**

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**do. The book goes deep into the underlying M language, showing you how to do amazing things that aren't going to be possible from just the GUI interface that is covered in most other books. You'll have full command of the GUI, and you'll be able to drop into the M**

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language to go beyond what the GUI provides. The depth in this book makes it a must-have item for anyone who is pushing Power BI and Excel to their limits in the pursuit of business intelligence from data analysis. Teaches the basics of using Power Query to



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**load data into Excel Helps you  
solve common, data-related  
problems with Power Query Shows  
how to write your own solutions in  
the powerful M language  
Manage and work with business  
data effectively by learning data  
modeling techniques and**

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**leveraging the latest features of  
Power BI Key Features Understand  
data modeling techniques to get  
the best out of data using Power BI  
Define the relationships between  
data to extract valuable insights  
Solve a wide variety of business  
challenges by building optimal data**

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**models Book Description Microsoft Power BI is one of the most popular business intelligence tools available on the market for desktop and the cloud. This book will be your guide to understanding the ins and outs of data modeling and how to create data models using Power**

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**BI confidently. You'll learn how to connect data from multiple sources, understand data, define and manage relationships between data, and shape data models. In this book, you'll explore how to use data modeling and navigation techniques to define relationships**

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**and create a data model before defining new metrics and performing custom calculations using modeling features. As you advance through the chapters, the book will demonstrate how to create full-fledged data models, enabling you to create efficient**

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**data models and simpler DAX code with new data modeling features. With the help of examples, you'll discover how you can solve business challenges by building optimal data models and changing your existing data models to meet evolving business requirements.**

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**Finally, you'll learn how to use some new and advanced modeling features to enhance your data models to carry out a wide variety of complex tasks. By the end of this Power BI book, you'll have gained the skills you need to structure data coming from multiple sources**

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**in different ways to create optimized data models that support reporting and data analytics. What you will learn Implement virtual tables and time intelligence functionalities in DAX to build a powerful model Identify Dimension and Fact tables and implement**



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**them in Power Query Editor Deal  
with advanced data preparation  
scenarios while building Star  
Schema Explore best practices for  
data preparation and data modeling  
Discover different hierarchies and  
their common pitfalls Understand  
complex data models and how to**

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**decrease the level of model complexity with different data modeling approaches Who this book is for This MS Power BI book is for BI users, data analysts, and analysis developers who want to become well-versed with data modeling techniques to make the**

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**most of Power BI. Basic knowledge of Power BI and Star Schema will help you to understand the concepts covered in this book. Any data analytics solution requires data population and preparation. With the rise of data analytics solutions these years, the**

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**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**

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**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**

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**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**

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**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**

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**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**



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**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,**

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**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**

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**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**

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**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**

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**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**

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**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**

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**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**

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**Excel, Dataflows, and other tools and services using Power Query. 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**



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**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**

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**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**

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**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**

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**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**

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**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**

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**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**

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**reporting solution**

**Sharing, Security, and Deployment  
Options for Microsoft Power BI  
Solutions**

**The Excel Pro's Guide to Mastering  
Dax**

**MyExcelOnline.com**

**Power BI Data Modeling**

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**The Definitive Guide to DAX**  
**Master Your Data with Power Query**  
**in Excel and Power BI**  
**Get the best out of Power BI by**  
**building optimized data models for**  
**reporting and business needs**  
**Bring your data to life with Power**



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BI Key Features Get to grips with the fundamentals of Microsoft Power BI and its Business Intelligence capabilities Build accurate analytical models, reports and dashboards Get faster and more intuitive insights

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from your data using Microsoft  
Power BI Book Description  
Microsoft Power BI is a cloud-  
based service that helps you  
easily visualize and share  
insights using your organization's  
data. This book will get you

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started with business intelligence using the Power BI toolset, covering essential concepts such as installation, designing effective data models, as well as building basic dashboards and visualizations to make your data

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come to life You will learn how to get your data the way you want – connecting to data sources sources and how to clean your data with the Power BI Query Editor. You will next learn how to properly design your data model

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to make your data easier to work with.. You will next learn how to properly design your data model to navigate table relationships and build DAX formulas to make your data easier to work with. Visualizing your data is another

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key element of this book, and you will learn how to follow proper data visualization styles and enhanced digital storytelling techniques. By the end of this book, you will understand how to administer your organization's

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Power BI environment so deployment can be made seamless, data refreshes can run properly, and security can be fully implemented What you will learn Connect to data sources using both import and

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DirectQuery options Use the Query Editor to apply data transformations and data cleansing processes, including learning how to write M and R scripts Design optimized data models by designing



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relationships and DAX  
calculations Leverage built-in  
and custom visuals to design  
effective reports Use the Power  
BI Desktop and Power BI  
Service to implement Row Level  
Security on your model

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Administer a Power BI cloud tenant for your organization  
Deploy your Power BI Desktop files into the Power BI Report Server Who this book is for This book is for aspiring Business Intelligence professionals who

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want to get up and running with Microsoft Power BI. If you have a basic understanding of BI concepts and want to learn how to apply them using Microsoft Power BI, this book is for you. Master the art of loading external

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data into Excel for use in reporting, charting, dashboarding, and business intelligence. This book provides a complete and thorough explanation of Microsoft Excel's Get and Transform feature set,

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showing you how to connect to a range of external databases and other data sources to find data and pull that data into your local spreadsheet for further analysis. Leading databases are covered, including Microsoft Azure data

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sources and web sources, and you will learn how to access those sources from your Microsoft Excel spreadsheets. Getting data into Excel is a prerequisite for using Excel's analytics capabilities. This book

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takes you beyond copying and pasting by showing you how to connect to your corporate databases that are hosted in the Azure cloud, and how to pull data from Oracle Database and SQL Server, and other sources.

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Accessing data is only half the problem, and the other half involves cleansing and rearranging your data to make it useful in spreadsheet form. Author Adam Aspin shows you how to create datasets and



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transformations. For advanced problems, there is help on the M language that is built into Excel, specifically to support mashing up data in support of business intelligence and analysis. If you are an Excel user, you won't

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want to be without this book that teaches you to extract and prepare external data ready for use in what is arguably the world's leading analytics tool. What You Will Learn Connect to a range of external data, from

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databases to Azure sources  
Ingest data directly into your  
spreadsheets, or into PowerPivot  
data models Cleanse and  
prepare external data so it can  
be used inside Excel Refresh  
data quickly and easily to always

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have the latest information

Transform data into ready-to-use  
structures that fit the

spreadsheet format Execute M  
language functions for complex  
data transformations Who This

Book Is For Excel users who

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want to access data from external sources—including the Microsoft Azure platform—in order to create business intelligence reporting, dashboards, and visualizations. For Excel users needing to

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cleanse and rearrange such data to meet their own, specific needs.

Microsoft PowerPivot is a free add-on to Excel from Microsoft that allows users to produce new kinds of reports and analyses

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that were simply impossible before, and this book is the first to tackle DAX formulas, the core capability of PowerPivot, from the perspective of the Excel audience. Written by the world's foremost PowerPivot blogger

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and practitioner, the book's concepts and approach are introduced in a simple, step-by-step manner tailored to the learning style of Excel users everywhere. The techniques presented allow users to



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produce, in hours or even minutes, results that formerly would have taken entire teams weeks or months to produce. It includes lessons on the difference between calculated columns and measures; how

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formulas can be reused across reports of completely different shapes; how to merge disjointed sets of data into unified reports; how to make certain columns in a pivot behave as if the pivot were filtered while other columns

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do not; and how to create time-intelligent calculations in pivot tables such as “Year over Year” and “Moving Averages” whether they use a standard, fiscal, or a complete custom calendar. The “pattern-like” techniques and

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best practices contained in this book have been developed and refined over two years of onsite training with Excel users around the world, and the key lessons from those seminars costing thousands of dollars per day are

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now available to within the pages of this easy-to-follow guide. This updated second edition covers new features introduced with Office 2015.

Reveal the insights behind your company's data with Microsoft

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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

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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.

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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



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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

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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

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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.

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QuickBooks Online For  
Dummies

Expert techniques to create  
interactive insights for effective  
data analytics and business  
intelligence

Artificial Intelligence with Power

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BI

A comprehensive guide to  
becoming a confident and  
certified Power BI professional  
Forecasting Business  
Intelligently  
Business intelligence with

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Microsoft Excel, SQL Server  
Analysis Services, and Power BI  
Power Query Cookbook  
Using Power Query, you can  
import, reshape, and cleanse any  
data from a simple interface, so  
you can mine that data for all of

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its hidden insights. Power Query is embedded in Excel, Power BI, and other Microsoft products, and leading Power Query expert Gil Raviv will help you make the most of it. Discover how to eliminate time-consuming manual data preparation, solve common

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problems, avoid pitfalls, and more. Then, walk through several complete analytics challenges, and integrate all your skills in a realistic chapter-length final project. By the time you're finished, you'll be ready to wrangle any data—and transform



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it into actionable knowledge.

Prepare and analyze your data the easy way, with Power Query · Quickly prepare data for analysis with Power Query in Excel (also known as Get & Transform) and in Power BI · Solve common data preparation problems with a few

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mouse clicks and simple formula edits · Combine data from multiple sources, multiple queries, and mismatched tables · Master basic and advanced techniques for unpivoting tables · Customize transformations and build flexible data mashups with

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the M formula language ·

Address collaboration challenges  
with Power Query · Gain crucial  
insights into text feeds ·

Streamline complex social  
network analytics so you can do  
it yourself For all information  
workers, analysts, and any Excel

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user who wants to solve their own business intelligence problems.

Design, develop, and master efficient Power BI solutions for impactful business insights Key FeaturesGet to grips with the fundamentals of Microsoft Power

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BI Combine data from multiple sources, create visuals, and publish reports across platforms Understand Power BI concepts with real-world use cases Book Description Microsoft Power BI Complete Reference Guide gets you started with

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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

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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

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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



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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

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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

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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

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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

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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

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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

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more.

Prepare for Microsoft Exam 70-778—and help demonstrate your real-world mastery of Power BI data analysis and visualization. Designed for experienced BI professionals and data analysts ready to advance

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their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: Consume and transform data by using Power BI Desktop Model and visualize data



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Configure dashboards, reports,  
and apps in the Power BI Service  
This Microsoft Exam Ref:  
Organizes its coverage by exam  
objectives Features strategic,  
what-if scenarios to challenge  
you Assumes you have  
experience consuming and

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transforming data, modeling and visualizing data, and configuring dashboards using Excel and Power BI

This book shows how to deliver eye-catching Business Intelligence with Microsoft Power BI Desktop. You can now

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take data from virtually any source and use it to produce stunning dashboards and compelling reports that will seize your audience's attention. Slice and dice the data with remarkable ease then add metrics and KPIs to project the

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insights that create your competitive advantage. Make raw data into clear, accurate, and interactive information with Microsoft's free self-service business intelligence tool. Pro Power BI Desktop will help you to push your BI delivery to the next

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level. You'll learn to create great-looking visualizations and let your audience have fun by interacting with the elegant and visually arresting output that you can now deliver. You can choose from a wide range of built-in and third-party visualization types so

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that your message is always enhanced. You'll be able to deliver those results on the PC, on tablets, on smartphones, as well as share results via the cloud. Finally, this book helps you save time by preparing the underlying data correctly without

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needing an IT department to prepare it for you. Power BI Desktop will let your analyses speak for themselves. Simple techniques to make data into insight. Polished interactive dashboards to deliver attention-grabbing information. Visually

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arresting output on multiple devices grab the reader's attention. What You Will Learn Produce designer output to astound your bosses and peers. Share business intelligence in the cloud Deliver visually stunning charts, maps, and tables. Make



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them interactive too! Find new insights as you chop and tweak your data as never before. Adapt delivery to mobile devices such as phones and tablets. Audience Pro Power BI Desktop is written for any user who is comfortable in Microsoft Office. Everyone

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from CEOs and Business Intelligence developers through to power users and IT managers can use this book to outshine the competition by producing 21st Century business intelligence visualizations and reporting on a variety of devices from a variety

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of data sources. All of this is possible through leveraging your existing skill set with the same, common Microsoft tools you already use in your daily work. Learning real-world Power Query and M Techniques for a better data analysis

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Language

101 Best Excel Tips & Tricks

Excel Power Pivot & Power

Query For Dummies

Getting started with Power Query

in Power BI and Excel

Take your data analytics skills to

the next level by leveraging the

AI capabilities in Power BI

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Build Interactive Visualizations,  
Learn DAX, Power Query, and  
Develop BI Models (English  
Edition)

Microsoft Power BI Quick Start  
Guide

Leverage your source data from

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hundreds of different connections, perform millions of different transformations, and easily manage highly complex data lifecycles with Power Query

Key Features Collect, combine, and transform data using Power

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Query's data connectivity and data preparation features Overcome the problems faced while accessing data from multiple sources and reshape it to meet your business requirements Explore how the M

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language can be used to write your own customized solutions

**Book Description** Power Query is a data preparation tool that enables data engineers and business users to connect, reshape, enrich, and transform



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their data to facilitate relevant business insights and analysis. With Power Query's wide range of features, you can perform no-code transformations and complex M code functions at the same time to get the most out of

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your data. This Power Query book will help you to connect to data sources, achieve intuitive transformations, and get to grips with preparation practices. Starting with a general overview of Power Query and what it can

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do, the book advances to cover more complex topics such as M code and performance optimization. You'll learn how to extend these capabilities by gradually stepping away from the Power Query GUI and into the M

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programming language.

Additionally, the book also shows you how to use Power Query Online within Power BI Dataflows. By the end of the book, you'll be able to leverage your source data, understand

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your data better, and enrich it with a full stack of no-code and custom features that you'll learn to design by yourself for your business requirements. What you will learn Understand how to use Power Query to connect and

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explore dataExplore ways to  
reshape and enrich dataDiscover  
the potential of Power Query  
across the Microsoft  
platformBuild complex and  
custom transformationsUse M  
code to write new queries

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against data sources Use the Power Query Online tool within Power BI Dataflows Implement best practices such as reusing dataflows, optimizing expanding table operations, and field mapping Who this book is for

## Read Online Types In The Power Query M Formula Language

This book is for data analysts, BI developers, data engineers, and anyone looking for a desk reference guide to learn how Power Query can be used with different Microsoft products to handle data of varying



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complexity. Beginner-level knowledge of Power BI and the M Language will help you to get the best out of this book.

An accessible fast paced introduction to all aspects of Power BI for new or aspiring BI

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professionals, data analysts, and data visualizers Key Features Updated with the latest features in Power BI including Dataflow, AI insights, visuals and row level security Get faster and more intuitive data insights using

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Microsoft Power BI and its business intelligence capabilities Build accurate analytical models, reports, and dashboards Book Description This revised edition has been fully updated to reflect the latest

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enhancements to Power BI. It includes a new chapter dedicated to dataflow, and covers all the essential concepts such as installation, designing effective data models, as well as building basic dashboards and

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visualizations to help you and your organization make better business decisions. You'll learn how to obtain data from a variety of sources and clean it using Power BI Query Editor. You'll then find out how you can design

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your data model to navigate and explore relationships within it and build DAX formulas to make your data easier to work with.

Visualizing your data is a key element in this book, and you'll get to grips rapidly with data

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visualization styles and enhanced digital storytelling techniques. In addition, you will acquire the skills to build your own dataflows, understand the Common Data Model, and automate data flow refreshes to

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eradicate data cleansing inefficiency. This guide will help you understand how to administer your organization's Power BI environment so that deployment can be made seamless, data refreshes can



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run properly, and security can be fully implemented. By the end of this Power BI book, you'll have a better understanding of how to get the most out of Power BI to perform effective business intelligence. What you will

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learn Connect to data sources using import and DirectQuery options Use Query Editor for data transformation and data cleansing processes, including writing M and R scripts and dataflows to do the same in the

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cloudDesign optimized data models by designing relationships and DAX calculationsDesign effective reports with built-in and custom visualsAdopt Power BI Desktop and Service to implement row-

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level securityAdminister a Power BI cloud tenant for your organizationUse built-in AI capabilities to enhance Power BI data transformation techniquesDeploy your Power BI desktop files into the Power BI

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Report Server Who this book is for Aspiring business intelligence professionals who want to learn Power BI will find this book useful. If you have a basic understanding of BI concepts and want to learn how to apply

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them using Microsoft Power BI,  
this book is for you.

Build Power BI Models Efficiently  
and Effectively KEY FEATURES

? Extensive examples illustrating  
Power BI and data modeling  
concepts. ? Includes graphical

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images and explanations of using Power BI. ? Numerous hands-on practical examples are teaching best practices in predictive modeling.

DESCRIPTION Creating data models has never been

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straightforward. This book demonstrates how to formulate a complete business analytics model that combines several data sources, executes numerous computations, and scales across hundreds of BI



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users. To begin, you'll learn about the Microsoft Power BI ecosystem by downloading the Power BI desktop and exploring all of its features and capabilities. Through examples, you'll learn how to connect to databases of

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Excel; and SQL Server, shaping the data with Power Query, and then transforming the data into actionable information. You will gain knowledge of the DAX language by exploring it, writing DAX functions, and creating

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hierarchies. You will be trained to develop effective business intelligence models by studying numerous data modeling topics. You get to put professionals' best practices to the test when handling large data scenarios

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and executing analytics on top of them. Additionally, the book discusses how to scale Power BI while considering its storage, memory, and security requirements. You'll see that several new topics have been

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included, including performance tuning, DAX Studio, sharing Power BI reports, and publishing reports to Sharepoint online.

WHAT YOU WILL LEARN ?

Conduct profiling, cleansing, and transformation of data. ? Build

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data models, aggregate data,  
and create hierarchies. ?

Practice DAX language, write  
calculations, and execute them.

? Utilize advanced features  
including AI visualizations and  
performance analyzer. ?

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Examine various connection types and connect data from different sources. ? Enhance performance by boosting storage and memory. WHO THIS BOOK IS FOR This book is intended for data analysts, business analysts,

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and any other business user who are interested in learning how to develop data models using Power BI from beginning to end. To follow this book and master Power BI, a basic understanding of data visualization would be



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sufficient. TABLE OF  
CONTENTS 1. Introduction to  
Microsoft Power BI 2. Microsoft  
Power BI Eco-system 3. Getting  
Started with Power BI and  
Connect with Data 4. My first  
Power BI Report 5. Intro to BI

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Building Blocks & Dimensional  
Mod Concepts 6. Get Data from  
Relational Databases 7.  
Cleansing, Blending and  
Transform Data using Power  
Query 8. Build Relationships 9.  
Introduction to DAX and

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Calculated Columns, Cal  
Measures & Hierarchies 10.  
Create Insightful Visuals 11. Row-  
level Security 12. Calculation  
Groups in Power BI 13. Self-  
service AI in Power BI 14.  
Incremental Refresh for Scalable

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Models 15. Composite Models &  
Implement Aggregations to  
Improve query performance 16.  
Self-service Data Prep for Any  
Data 17. Optimize DAX 18.  
Collaborate Your Power BI  
Workload 19. Performance

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Tuning via optimizing Storage  
and Memory

The complete guide to Excel  
2019 Whether you are just  
starting out or an Excel novice,  
the Excel 2019 Bible is your  
comprehensive, go-to guide for

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all your Excel 2019 needs.

Whether you use Excel at work or at home, you will be guided through the powerful new features and capabilities to take full advantage of what the updated version offers. Learn to

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incorporate templates, implement formulas, create pivot tables, analyze data, and much more. Navigate this powerful tool for business, home management, technical work, and much more with the only

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resource you need, Excel 2019 Bible. Create functional spreadsheets that work Master formulas, formatting, pivot tables, and more Get acquainted with Excel 2019's new features and tools Whether you need a



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walkthrough tutorial or an easy-to-navigate desk reference, the Excel 2019 Bible has you covered with complete coverage and clear expert guidance.

Learn Power BI

Exam Ref 70-778 Analyzing and

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Visualizing Data by Using  
Microsoft Power BI  
Expert Data Modeling with  
Power BI  
M Is for (Data) Monkey  
High Impact Data Visualization  
with Power View, Power Map,

# Read Online Types In The Power Query M Formula Language and Power BI

Bring your data to life with the powerful features of Microsoft Power BI

Bring your data to life through data modeling, visualization, digital storytelling, and more

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Build effective analytical data models, reports, and dashboards using the advanced features of Power BI Key Features Update your knowledge with new recipes for query optimization,

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aggregation tables, Power BI  
API, and paginated  
reportsWork with recipes  
across diverse Power BI  
platforms including the Power  
BI Service and Mobile  
ApplicationsImplement

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custom solutions with M and  
DAX languages through  
actionable guidance and  
proven development  
techniques

Book Description  
The complete everyday  
reference guide to Power BI,

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written by an internationally recognized Power BI expert duo, is back with a new and updated edition. Packed with revised practical recipes, Microsoft Power BI Cookbook, Second Edition,

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helps you navigate Power BI tools and advanced features. It also demonstrates the use of end-to-end solutions that integrate those features to get the most out of Power BI. With the help of the recipes



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in this book, you'll gain advanced design and development insight, practical tips, and guidance on enhancing existing Power BI projects. The updated recipes will equip you with

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everything you need to know to implement evergreen frameworks that will stay relevant as Power BI updates. You'll familiarize yourself with Power BI development tools and services by going

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deep into the data connectivity, transformation, modeling, visualization, and analytical capabilities of Power BI. By the end of this book, you'll make the most of Power BI's functional

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programming languages of DAX and M and deliver powerful solutions to common business intelligence challenges. What you will learn Cleanse, stage, and integrate your data sources

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with Power Query

(M) Remove data complexities  
and provide users with  
intuitive, self-service BI  
capabilities Build business  
logic and analysis into your  
solutions via the DAX

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programming language and  
dashboard-ready  
calculationsImplement  
aggregation tables to  
accelerate query performance  
over large data sourcesCreate  
and integrate paginated

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reports Understand the differences and implications of DirectQuery, live connections, Import, and Composite model datasets Integrate other Microsoft data tools into your

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Power BI solution Who this book is for If you're a BI professional who wants to up their knowledge of Power BI and offer more value to their organization, then this book is for you. Those looking for



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quick solutions to common Power BI problems will also find this book an extremely useful resource. Please be aware that this is not a beginner's guide; you'll need a solid understanding of

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Power BI and experience working with datasets before you dive in.

Design, create and manage robust Power BI solutions to gain meaningful business insights

Key Features Master

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all the dashboarding and reporting features of Microsoft Power BI Combine data from multiple sources, create stunning visualizations and publish your reports across multiple platforms A

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comprehensive guide with  
real-world use cases and  
examples demonstrating how  
you can get the best out of  
Microsoft Power BI Book  
Description This book is  
intended for business

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intelligence professionals responsible for the design and development of Power BI content as well as managers, architects and administrators who oversee Power BI projects and deployments.

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The chapters flow from the planning of a Power BI project through the development and distribution of content to the administration of Power BI for an organization. BI

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developers will learn how to create sustainable and impactful Power BI datasets, reports, and dashboards. This includes connecting to data sources, shaping and enhancing source data, and

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developing an analytical data model. Additionally, top report and dashboard design practices are described using features such as Bookmarks and the Power KPI visual. BI managers will learn how



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Power BI ' s tools work together such as with the On-premises data gateway and how content can be staged and securely distributed via Apps. Additionally, both the Power BI Report Server and

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Power BI Premium are reviewed. By the end of this book, you will be confident in creating effective charts, tables, reports or dashboards for any kind of data using the tools and techniques in

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Microsoft PowerBI. What you will learn Build efficient data retrieval and transformation processes with the Power Query M Language Design scalable, user-friendly DirectQuery and Import Data

## Read Online Types In The Power Query M Formula Language

Models Develop visually rich,  
immersive, and interactive  
reports and dashboards

Maintain version control and  
stage deployments across  
development, test, and  
production environments

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Manage and monitor the  
Power BI Service and the On-  
premises data gateway  
Develop a fully on-premise  
solution with the Power BI  
Report Server Scale up a  
Power BI solution via Power

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BI Premium capacity and migration to Azure Analysis Services or SQL Server Analysis Services Who this book is for Business Intelligence professionals and existing Power BI users

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looking to master Power BI for all their data visualization and dashboarding needs will find this book to be useful. While understanding of the basic BI concepts is required, some exposure to Microsoft

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Power BI will be helpful.

Learn to crunch huge  
amounts of data with

PowerPivot and Power Query

Do you have a ton of data you  
need to make sense of?

Microsoft 's Excel program



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can handle amazingly large data sets, but you ' ll need to get familiar with PowerPivot and Power Query to get started. And that ' s where Dummies comes in. With step-by-step

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instructions—accompanied by ample screenshots—Excel PowerPivot & Power Query For Dummies will teach you how to save time, simplify your processes, and enhance your data analysis and

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reporting. Use Power Query to discover, connect to, and import your organization ' s data. Then use PowerPivot to model it in Excel. You ' ll also learn to: Make use of databases to store large

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amounts of data Use custom functions to extend and enhance Power Query Add the functionality of formulas to PowerPivot and publish data to SharePoint If you ' re expected to wrangle,

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interpret, and report on large amounts of data, Excel PowerPivot & Power Query For Dummies gives you the tools you need to get up to speed quickly.

Discover the true power of

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DAX and build advanced DAX solutions for practical business scenarios Key Features Solve complex business problems within Microsoft BI tools including Power BI, SQL Server, and

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Excel Develop a conceptual understanding of critical business data modeling principles Learn the subtleties of Power BI data visualizations, evaluation context, context transition,

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and filtering Book Description  
If you want to get the most  
out of Microsoft Business  
Intelligence tools, sooner or  
later you'll need to master  
DAX. Extreme DAX enables  
business analysts to generate



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powerful and sophisticated analyses from their data.

You'll learn the principles of business intelligence, good model design, and how DAX fits into it all. Then, you'll launch into detailed examples

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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

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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

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measures, and how and when they can be used to derive effective insights. Also provided with the book are PBIX files for each chapter for you to follow along with and explore in your own time.

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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

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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

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filtering functions including  
TREATAS, GENERATE, and  
SUMMARIZE Explore  
dynamically changing  
visualizations with helper  
tables and dynamic labels and  
axes Work with week-based

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calendars and understand  
standard time-intelligence  
Evaluate investments  
intelligently with the XNPV  
and XIRR financial DAX  
functions Who this book is for  
If you are an analyst with a



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working knowledge of DAX in MS Power BI or other Microsoft analytics tools, this book will help you upgrade your DAX knowledge and work with analytical models more effectively. This book is

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not for beginners and practical experience with DAX is necessary.

A Practical Guide to Self-Service Data Analytics with Excel 2016 and Power BI Desktop

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Finding, Transforming, and  
Loading Data from External  
Sources

Gain expertise in Power BI  
with over 90 hands-on  
recipes, tips, and use cases  
Leveraging Power Query to

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Get & Transform Your Task  
Flow

Pro Power BI Architecture  
Microsoft Power BI Complete  
Reference

*Any data analytics solution requires  
data population and preparation. With*

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*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*

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*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 a structure that can be modeled easily and used high performant for visualization. Data preparation and transformation is the*

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*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 come from the hard work in the kitchen. The part that you*

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*don't see or the backend in the world of Power BI is Power Query. You may already be familiar with other data preparation and transformation technologies, such as T-SQL, SSIS, Azure Data Factory, Informatica, etc. Power Query is a data transformation*



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*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*

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*performing advanced transformation. Power Query exists in many Microsoft tools and services such as Power BI, Excel, Dataflows, Power Automate, Azure Data Factory, etc. Through the years, this engine became more powerful. These days, we can say this*

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*is essential learning for anyone who wants to do data analysis with Microsoft technology to learn Power Query and master it. We have been working with Power Query since the very early release of that in 2013, named Data Explorer, and wrote blog*

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*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*

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*them in a book series. 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*

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*covering the data preparation and transformations aspects of it. This book series 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*

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*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 (already available to be purchased separately)*

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*Mastering Power Query in Power BI and Excel (This book) Power Query dataflows (will be published later) This book deeps dive into real-world challenges of data transformation. It starts with combining data sources and continues with aggregations and fuzzy*



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*operations. The book covers advanced usage of Power Query in scenarios such as error handling and exception reports, custom functions and parameters, advanced analytics, and some helpful table and list functions. The book continues with some*

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*performance tuning tips and it also explains the Power Query formula language (M) and the structure of it and how to use it in practical solutions. Although this book is written for Power BI and all the examples are presented using the Power BI. However, the*

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*examples can be easily applied to  
Excel, Dataflows, and other tools and  
services using Power Query.*

*Analyze your company's data quickly  
and easily using Microsoft's latest  
tools. You will learn to build scalable  
and robust data models to work from,*

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*clean and combine different data sources effectively, and create compelling visualizations and share them with your colleagues. Author Dan Clark takes you through each topic using step-by-step activities and plenty of screen shots to help familiarize you*

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*with the tools. This second edition includes new material on advanced uses of Power Query, along with the latest user guidance on the evolving Power BI platform. Beginning Power BI is your hands-on guide to quick, reliable, and valuable data insight.*

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*What You'll Learn Simplify data  
discovery, association, and cleansing  
Build solid analytical data models  
Create robust interactive data  
presentations Combine analytical and  
geographic data in map-based  
visualizations Publish and share*

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*dashboards and reports Who This Book  
Is For Business analysts, database  
administrators, developers, and other  
professionals looking to better  
understand and communicate with data  
Perform more advanced analysis and  
manipulation of your data beyond what*

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*Power BI can do to unlock valuable insights using Python and R Key Features Get the most out of Python and R with Power BI by implementing non-trivial code Leverage the toolset of Python and R chunks to inject scripts into your Power BI*



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*dashboards Implement new techniques for ingesting, enriching, and visualizing data with Python and R in Power BI Book Description Python and R allow you to extend Power BI capabilities to simplify ingestion and transformation activities, enhance*

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*dashboards, and highlight insights.*

*With this book, you'll be able to make your artifacts far more interesting and rich in insights using analytical languages. You'll start by learning how to configure your Power BI environment to use your Python and R*

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*scripts. The book then explores data ingestion and data transformation extensions, and advances to focus on data augmentation and data visualization. You'll understand how to import data from external sources and transform them using complex*

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*algorithms. The book helps you implement personal data de-identification methods such as pseudonymization, anonymization, and masking in Power BI. You'll be able to call external APIs to enrich your data much more quickly using Python*

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*programming and R programming.  
Later, you'll learn advanced Python  
and R techniques to perform in-depth  
analysis and extract valuable  
information using statistics and  
machine learning. You'll also  
understand the main statistical features*

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*of datasets by plotting multiple visual graphs in the process of creating a machine learning model. By the end of this book, you'll be able to enrich your Power BI data models and visualizations using complex algorithms in Python and R. What you*

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*will learn Discover best practices for  
using Python and R in Power BI  
products Use Python and R to perform  
complex data manipulations in Power  
BI Apply data anonymization and data  
pseudonymization in Power BI Log data  
and load large datasets in Power BI*

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*using Python and R* Enrich your Power BI dashboards using external APIs and machine learning models  
Extract insights from your data using linear optimization and other algorithms  
Handle outliers and missing values for multivariate and time-series



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*data* Create any visualization, as complex as you want, using R scripts  
Who this book is for This book is for business analysts, business intelligence professionals, and data scientists who already use Microsoft Power BI and want to add more value

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*to their analysis using Python and R.  
Working knowledge of Power BI is  
required to make the most of this book.  
Basic knowledge of Python and R will  
also be helpful.  
Get more out of Microsoft Power BI  
turning your data into actionable*

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*insights About This Book\* From connecting to your data sources to developing and deploying immersive, mobile-ready dashboards and visualizations, this book covers it all\* Over 90 hands-on, technical recipes, tips, and use cases from across the*

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*Power BI platform including the Power BI Service and Mobile Applications\**

*Proven development techniques and guidance for implementing custom solutions with DAX and M*

*languages Who This Book Is For This book is for BI professionals who wish*

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*to enhance their knowledge of Power BI beyond and to enhance the value of the Power BI solutions they deliver to business users. Those who are looking at quick solutions to common problems while using Power BI will also find this book to be a very useful resource*

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*.Some experience with Power BI will  
be useful. What You Will Learn\**

*Cleanse, stage, and integrate your data  
sources with Power BI\* Abstract data  
complexities and provide users with  
intuitive, self-service BI capabilities\*  
Build business logic and analysis into*

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*your solutions via the DAX  
programming language and dynamic,  
dashboard-ready calculations\* Take  
advantage of the analytics and  
predictive capabilities of Power BI\*  
Make your solutions more dynamic and  
user specific and/or defined including*

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*use cases of parameters, functions, and row level security\* Understand the differences and implications of DirectQuery, Live Connections, and Import-Mode Power BI datasets and how to deploy content to the Power BI Service and schedule refreshes\**



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*Integrate other Microsoft data tools  
such as Excel and SQL Server  
Reporting Services into your Power BI  
solution*  
*In Detail*  
*Microsoft Power BI is  
a business intelligence and analytics  
platform consisting of applications and  
services designed to provide coherent,*

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*visual and interactive insights of data. This book will provide thorough, technical examples of using all primary Power BI tools and features as well as demonstrate high impact end-to-end solutions that leverage and integrate these technologies and services. Get*

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*familiar with Power BI development tools and services, go deep into the data connectivity and transformation, modeling, visualization and analytical capabilities of Power BI, and see Power BI's functional programming languages of DAX and M come alive to*

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*deliver powerful solutions to address common, challenging scenarios in business intelligence. This book will excite and empower you to get more out of Power BI via detailed recipes, advanced design and development tips, and guidance on enhancing existing*

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*Power BI projects. Style and approach This book consists of practical recipes on Power BI that target novices as well as intermediate Power BI users. It goes deep into the technical issues, covers additional protocols, and many more real-live*

# Read Online Types In The Power Query M Formula Language *examples.*

*Power Query for Power BI and Excel  
Excel 2019 Bible*

*Mastering Microsoft Power BI*

*The Excel User's Guide to DAX, Power  
Query, Power BI & Power Pivot in  
Excel 2010-2016*

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*Pro Power BI Desktop*

*Use effective and powerful queries in  
Power BI Desktop and Dataflows to  
prepare and transform your data*

*Dax Formulas for Powerpivot*

Plan, design, develop, and  
manage robust Power BI

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solutions to generate meaningful insights and make data-driven decisions

**Key Features**

Master the latest dashboarding and reporting features of Microsoft Power BI

Combine data from multiple sources, create



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stunning visualizations and  
publish Power BI apps to  
thousands of usersGet the most  
out of Microsoft Power BI with  
real-world use cases and  
examplesBook Description  
Mastering Microsoft Power BI,

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Second Edition, provides an advanced understanding of Power BI to get the most out of your data and maximize business intelligence. This updated edition walks through each essential phase and

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component of Power BI, and explores the latest, most impactful Power BI features. Using best practices and working code examples, you will connect to data sources, shape and enhance source data, and

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develop analytical data models. You will also learn how to apply custom visuals, implement new DAX commands and paginated SSRS-style reports, manage application workspaces and metadata, and understand how

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content can be staged and securely distributed via Power BI apps. Furthermore, you will explore top report and interactive dashboard design practices using features such as bookmarks and the Power KPI

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visual, alongside the latest capabilities of Power BI mobile applications and self-service BI techniques. Additionally, important management and administration topics are covered, including application

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lifecycle management via Power BI pipelines, the on-premises data gateway, and Power BI Premium capacity. By the end of this Power BI book, you will be confident in creating sustainable and impactful charts, tables,

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reports, and dashboards with any kind of data using Microsoft Power BI. What you will learnBuild efficient data retrieval and transformation processes with the Power Query M language and dataflowsDesign



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scalable, user-friendly  
DirectQuery, import, and  
composite data models  
Create basic and advanced DAX  
measures  
Add ArcGIS Maps to  
create interesting data  
stories  
Build pixel-perfect

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paginated reports  
Discover the capabilities of Power BI mobile applications  
Manage and monitor a Power BI environment as a Power BI administrator  
Scale up a Power BI solution for an enterprise via Power BI Premium

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capacityWho this book is for  
Business Intelligence  
professionals and intermediate  
Power BI users looking to master  
Power BI for all their data  
visualization and dashboarding  
needs will find this book useful.

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An understanding of basic BI concepts is required and some familiarity with Microsoft Power BI will be helpful to make the most out of this book.

High Impact Data Visualization with Power View, Power Map,

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and Power BI helps you take business intelligence delivery to a new level that is interactive, engaging, even fun, all while driving commercial success through sound decision-making. Learn to harness the power of

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Microsoft's flagship, self-service business intelligence suite to deliver compelling and interactive insight with remarkable ease. Learn the essential techniques needed to enhance the look and feel of

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reports and dashboards so that you can seize your audience's attention and provide them with clear and accurate information. Also learn to integrate data from a variety of sources and create coherent data models displaying

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clear metrics and attributes. Power View is Microsoft's ground-breaking tool for ad-hoc data visualization and analysis. It's designed to produce elegant and visually arresting output. It's also built to enhance user



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experience through polished interactivity. Power Map is a similarly powerful mechanism for analyzing data across geographic and political units. Power Query lets you load, shape and streamline data from

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multiple sources. PowerPivot can extend and develop data into a dynamic model. Power BI allows you to share your findings with colleagues, and present your insights to clients. High Impact Data Visualization with

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Power View, Power Map, and Power BI helps you master this suite of powerful tools from Microsoft. You'll learn to identify data sources, and to save time by preparing your underlying data correctly. You'll also learn

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to deliver your powerful visualizations and analyses through the cloud to PCs, tablets and smartphones. Simple techniques take raw data and convert it into information. Slicing and dicing metrics

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delivers interactive insight.  
Visually arresting output grabs  
and focuses attention on key  
indicators.  
Learn how to use Power BI to  
deliver the insights needed to  
help your enterprise survive and

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thrive Key Features Learn simple through to advanced Power BI features in a clear, concise way using real-world examples Develop powerful analytical models and reports that extract key business

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insightsPublish, share and collaborate on impressive reports, dashboards, apps, and goalsBook Description To succeed in today's transforming business world, organizations need business intelligence

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capabilities to make smarter decisions faster than ever before. This updated second edition of Learn Power BI takes you on a journey of data exploration and discovery, using Microsoft Power BI to ingest,



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cleanse, and organize data in order to unlock key business insights that can then be shared with others. This newly revised and expanded edition of Learn Power BI covers all of the latest features and interface changes

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and takes you through the fundamentals of business intelligence projects, how to deploy, adopt, and govern Power BI within your organization, and how to leverage your knowledge in the marketplace and broader

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ecosystem that is Power BI. As you progress, you will learn how to ingest, cleanse, and transform your data into stunning visualizations, reports, and dashboards that speak to business decision-makers. By

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the end of this Power BI book, you will be fully prepared to be the data analysis hero of your organization – or even start a new career as a business intelligence professional. What you will learn

Get up and running

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quickly with Power BI Understand  
and plan your business  
intelligence projects Connect to  
and transform data using Power  
Query Create data models  
optimized for analysis and  
reporting Perform simple and

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complex DAX calculations to  
enhance analysisDiscover  
business insights and create  
professional reportsCollaborate  
via Power BI dashboards, apps,  
goals, and scorecardsDeploy  
and govern Power BI, including

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using deployment pipelines Who  
this book is for If you're an IT  
manager, data analyst, or BI user  
new to using Power BI for  
solving business intelligence  
problems, this book is for you.  
You'll also find this book helpful

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If you want to migrate from other BI tools to create powerful and interactive dashboards. No experience of working with Power BI is expected.

Microsoft PowerPivot is a free add-on to Excel from Microsoft



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that allows users to produce new kinds of reports and analyses that were simply impossible before, and this book is the first to tackle DAX formulas, the core capability of PowerPivot, from the perspective of the Excel

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audience. Written by the world's foremost PowerPivot blogger and practitioner, the book's concepts and approach are introduced in a simple, step-by-step manner tailored to the learning style of Excel users

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everywhere. The techniques presented allow users to produce, in hours or even minutes, results that formerly would have taken entire teams weeks or months to produce. It includes lessons on the

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difference between calculated columns and measures; how formulas can be reused across reports of completely different shapes; how to merge disjointed sets of data into unified reports; how to make certain columns in

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a pivot behave as if the pivot were filtered while other columns do not; and how to create time-intelligent calculations in pivot tables such as "Year over Year" and "Moving Averages" whether they use a standard, fiscal, or a

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complete custom calendar. The "pattern-like" techniques and best practices contained in this book have been developed and refined over two years of onsite training with Excel users around the world, and the key lessons

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from those seminars costing thousands of dollars per day are now available to within the pages of this easy-to-follow guide. This updated second edition covers new features introduced with Office 2015.

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Microsoft Power BI Cookbook  
Collect, Combine, and Transform  
Data Using Power Query in Excel  
and Power BI  
Power Pivot and Power BI  
Ingest, transform, enrich, and  
visualize data using the power of



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analytical languages

Microsoft Power BI Data Analyst

Certification Guide

Beginning Power BI

Extreme DAX

Power Query is one component of  
the Power BI (Business

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Intelligence) product from Microsoft, and "M" is the name of the programming language created by it. As more business intelligence pros begin using Power Pivot, they find that they do not have the Excel skills to clean the data in Excel; Power

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Query solves this problem. This book shows how to use the Power Query tool to get difficult data sets into both Excel and Power Pivot, and is solely devoted to Power Query dashboarding and reporting.

Excel Power Pivot and Power

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Query For Dummies John Wiley &  
Sons

Learn the Best Excel Tips & Tricks  
Ever: FORMULAS, MACROS, PIVOT  
TABLES, FORMATTING, DATA,  
MICROSOFT OFFICE 365 plus  
Many More! With this book, you'll  
learn to apply the must know

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Excel features and tricks to make your data analysis & reporting easier and will save time in the process. With this book you get the following: ✓ 101 Best Excel Tips & Tricks To Advance Your Excel Skills & Save You Hours ✓ New Excel Tips & Tricks for

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Read Step by Step Guide with  
Screenshots ✓ Downloadable  
Practice Excel Workbooks for  
each Tip & Trick ✓ You also get a  
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version of this book! This book is  
a MUST-HAVE for Beginner to

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Intermediate Excel users who want to learn Microsoft Excel FAST & stand out from the crowd! This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book.

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Introducing Microsoft Power BI enables you to evaluate when and how to use Power BI. Get inspired to improve business processes in your company by leveraging the available analytical and collaborative features of this environment. Be



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sure to watch for the publication of Alberto Ferrari and Marco Russo's upcoming retail book, *Analyzing Data with Power BI and Power Pivot for Excel* (ISBN 9781509302765). Go to the book's page at the Microsoft Press Store here for more details:<http://>

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[aka.ms/analyzingdata/details](https://aka.ms/analyzingdata/details).

Learn more about Power BI at  
<https://powerbi.microsoft.com/>.

Build dashboards and  
visualizations to make your data  
come to life

Extending Power BI with Python  
and R

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Financial Modelling in Power BI  
Data Mashup with Microsoft Excel  
Using Power Query and M  
Microsoft Power BI For Dummies  
Microsoft Power Bi Cookbook  
Expert techniques for effective  
data analytics and business  
intelligence

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Just like a shovel, this book is genuinely groundbreaking. It hits you over the head with the proverbial gardening tool, implementing the way forward for financial

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modelling. Many working in banking and finance create their financial models in Excel and then import them into Power BI for graphical interpretation and further analysis. Not

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on our watch. We're going to jettison the universal spreadsheet and build the entire model in Power BI. We can't stress how far off the range we're taking the horses. If you are

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reading this, you are a true pioneer. Some have managed to build the odd financial statement in Power BI, but all three? This is where you can gain a major advantage in the

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workplace. If you build the calculations for financial statements in Power BI, you can produce statements by product, by customer, by geography... Get the picture? The



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limitation will be restricted to the granularity of the underlying data and your imagination. This book unearths some of the tricks, measures, logic

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and tools needed to build the model (there is no need to bury your mistakes). We just can't promise you a rose garden...With the usual jokes in spades, it's just

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a shame we couldn't get  
Doug (get it?) to assist.  
A guide to PowerPivot and  
Power Query no data  
cruncher should be  
without! Want to  
familiarize yourself with

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the rich set of Microsoft Excel tools and reporting capabilities available from PowerPivot and Power Query? Look no further! Excel PowerPivot & Power Query For Dummies shows

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you how this powerful new set of tools can be leveraged to more effectively source and incorporate 'big data' Business Intelligence and Dashboard reports. You'll

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discover how PowerPivot and Power Query not only allow you to save time and simplify your processes, but also enable you to substantially enhance your data analysis and

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reporting capabilities.  
Gone are the days of  
relatively small amounts  
of data—today's data  
environment demands more  
from business analysts  
than ever before. Now,

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with the help of this friendly, hands-on guide, you'll learn to use PowerPivot and Power Query to expand your skill-set from the one-dimensional spreadsheet to new



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territories, like relational databases, data integration, and multi-dimensional reporting. Demonstrates how Power Query is used to discover, connect to, and import

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your data Shows you how to  
use PowerPivot to model  
data once it's been  
imported Offers guidance  
on using these tools to  
make analyzing data easier  
Written by a Microsoft MVP

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in the lighthearted, fun  
style you've come to  
expect from the For  
Dummies brand If you spend  
your days analyzing data,  
Excel PowerPivot & Power  
Query For Dummies will get

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you up and running with the rich set of Excel tools and reporting capabilities that will make your life—and work—easier.

Learn how to create your

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own AI model and consume  
it in your Power BI  
reports to gain better  
insights from your data  
Key Features Learn how to  
gain better insights from  
your data by applying

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different AI techniques  
within Power BI Save time  
by creating machine  
learning models  
independently and  
integrating them within  
your BI reports Understand

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how to combine Cognitive  
Services and Azure Machine  
Learning together with  
Power BI Book Description  
The artificial  
intelligence (AI)  
capabilities in Power BI

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enable organizations to quickly and easily gain more intelligent insights from unstructured and structured data. This book will teach you how to make use of the many AI



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features available today in Power BI to quickly and easily enrich your data and gain better insights into patterns that can be found in your data. You'll begin by understanding the

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benefits of AI and how it can be used in Power BI. Next, you'll focus on exploring and preparing your data for building AI projects and then progress to using prominent AI

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features already available in Power BI, such as forecasting, anomaly detection, and Q&A. Later chapters will show you how to apply text analytics and computer vision within

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Power BI reports. This will help you create your own Q&A functionality in Power BI, which allows you to ask FAQs from another knowledge base and then integrate it with

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PowerApps. Toward the concluding chapters, you'll be able to create and deploy AutoML models trained in Azure ML and consume them in Power Query Editor. After your

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models have been trained, you'll work through principles such as privacy, fairness, and transparency to use AI responsibly. By the end of this book, you'll have

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learned when and how to  
enrich your data with AI  
using the out-of-the-box  
AI capabilities in Power  
BI. What you will  
learnApply techniques to  
mitigate bias and handle

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outliers in your  
dataPrepare time series  
data for forecasting in  
Power BIPPrepare and shape  
your data for anomaly  
detectionUse text  
analytics in Power Query



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EditorIntegrate QnA Maker  
with PowerApps and create  
an appTrain your own  
models and identify the  
best one with  
AutoMLIntegrate an Azure  
ML workspace with Power BI

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and use endpoints to  
generate predictionsWho  
this book is for This  
artificial intelligence BI  
book is for data analysts  
and BI developers who want  
to explore advanced

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analytics or artificial intelligence possibilities with their data. Prior knowledge of Power BI will help you get the most out of this book.