

Power Query M function reference

In this section

- [Accessing data functions](#)
- [Binary functions](#)
- [Combiner functions](#)
- [Comparer functions](#)
- [Date functions](#)
- [DateTime e functions](#)
- [DateTimeZone functions](#)
- [Duration functions](#)
- [Error handling](#)
- [Expression functions](#)
- [Function values](#)
- [List functions](#)
- [Lines functions](#)
- [Logical functions](#)
- [Number functions](#)
- [Record functions](#)
- [Replacer functions](#)
- [Splitter functions](#)
- [Table functions](#)
- [Text functions](#)
- [Time functions](#)
- [Type functions](#)
- [Uri functions](#)
- [Value functions](#)

[Power Query M Reference](#)

[Power Query M language specification](#)

[Power Query M type system](#)

[Power Query M function reference](#)

[Understanding Power Query M functions](#)

[Accessing data functions](#)

[Access.Database](#)

[ActiveDirectory.Domains](#)

[AdobeAnalytics.Cubes](#)

[AdoDotNet.DataSource](#)

[AdoDotNet.Query](#)

[AnalysisServices.Database](#)

[AnalysisServices.Databases](#)

[AzureStorage.BlobContents](#)

[AzureStorage.Blobs](#)

[Power Query M Function Reference Msdn Microsoft Com](#)

Daniil Maslyuk, Gil Raviv



Power Query M Function Reference Msdn Microsoft Com:

Exam Ref 70-778 Analyzing and Visualizing Data with Microsoft Power BI Daniil Maslyuk,2018-06-07 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 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 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 transforming data modeling and visualizing data and configuring dashboards using Excel and Power BI [Collect, Combine, and Transform Data Using Power Query in Excel and Power BI](#) Gil Raviv,2018-10-08 Using Power Query you can import reshape and cleanse any data from a simple interface so you can mine that data for all of 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 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 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 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 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 user who wants to solve their own business intelligence problems [Microsoft Power BI Complete Reference](#) Devin Knight,Brian Knight,Mitchell Pearson,Manuel Quintana,Brett Powell,2018-12-21 Design develop and master efficient Power BI solutions for impactful business insights Key FeaturesGet to grips with the fundamentals of Microsoft Power BI Combine data from multiple sources create visuals and publish reports across platformsUnderstand Power BI concepts with real world use casesBook Description Microsoft Power BI Complete Reference Guide gets you started with business intelligence by showing you how to install the Power BI toolset design effective data models and build basic dashboards and visualizations that make your data come to life In this Learning Path you will learn to create powerful interactive reports by visualizing your data and learn visualization styles tips and tricks to bring your data to life You will be able to administer your organization s Power BI environment to create and share dashboards You will also be able to streamline deployment by implementing security and regular data refreshes Next you will delve deeper into the

nuances of Power BI and handling projects You will get acquainted with planning a Power BI project development and distribution of content and deployment You will learn to connect and extract data from various sources to create robust datasets reports and dashboards Additionally you will learn how to format reports and apply custom visuals animation and analytics to further refine your data By the end of this Learning Path you will learn to implement the various Power BI tools such as on premises gateway together along with staging and securely distributing content via apps This Learning Path includes content from the following Packt products Microsoft Power BI Quick Start Guide by Devin Knight et al Mastering Microsoft Power BI by Brett PowellWhat you will learnConnect to data sources using both import and DirectQuery optionsLeverage built in and custom visuals to design effective reportsAdminister a Power BI cloud tenant for your organizationDeploy your Power BI Desktop files into the Power BI Report ServerBuild efficient data retrieval and transformation processesWho this book is for Microsoft Power BI Complete Reference Guide is for those who want to learn and use the Power BI features to extract maximum information and make intelligent decisions that boost their business If you have a basic understanding of BI concepts and want to learn how to apply them using Microsoft Power BI then Learning Path is for you It consists of real world examples on Power BI and goes deep into the technical issues covers additional protocols and much more [Microsoft Excel 2016 Programming by Example with VBA, XML, and ASP](#) Julitta Korol,2016-06-23 No detailed description available for Microsoft Excel 2016 Programming by Example with VBA XML and ASP **The Definitive Guide to Power Query (M)** Greg Deckler,Rick de Groot,Melissa de Korte,2024-03-29 Learn how to use the Power Query M formula language and its functions effectively for better data modeling and impactful business intelligence reports Free with your book DRM free PDF version access to Packt s next gen Reader Key Features Get comprehensive coverage of fundamental and advanced Power Query concepts Gain hands on experience with practical examples based on real world problems Delve into the intricacies of Power Query M language for enhanced data manipulation Book DescriptionData transformation is a critical step in building data models and business intelligence reports Power Query is an invaluable tool for anyone who wants to master data transformation and this book will equip you with the knowledge and skills to make the most of it The Definitive Guide to Power Query M will help you build a solid foundation in the Power Query M language As you progress through the chapters you ll learn how to use that knowledge to implement advanced concepts and data transformations This will set the stage for an uncompromisingly thorough exploration of the Power Query M Language You ll also get to grips with optimizing performance handling errors and implementing efficient data processing techniques As this is a hands on guide the practical examples in the chapters will help you gain the skills to apply Power Query to real world problems and improve your data analysis capabilities By the end of this book you will be able to leverage all of Power Query s remarkable capabilities for data transformation Email sign up and proof of purchase required What you will learn Gain a strong understanding of Power Query fundamentals Master various functions within Power Query to perform complex data

operations Acquire knowledge about values types and control structures in Power Query Develop proficiency in error handling techniques Learn performance optimization strategies for Power Query Apply what you ve learned to real world scenarios including common troublesome patterns Who this book is for This book is for business analysts business intelligence professionals and power business users working with data who want to add Power Query mastery to their resume This book will be beneficial for anyone who wants to automate their process of data cleaning and save huge amount of time Having some basic experience in Power Query is recommended

Mastering Power Query in Power BI and Excel Reza Rad,Leila Etaati,2021-08-27 Any data analytics solution requires data population and preparation With the rise of data analytics solutions these years the need for this data preparation becomes even more essential Power BI is a helpful data analytics tool that is used worldwide by many users As a Power BI or Microsoft BI developer it is essential to learn how to prepare the data in the right shape and format needed You need to learn how to clean the data and build it in a structure that can be modeled easily and used high performant for visualization Data preparation and transformation is the backend work If you consider building a BI system as going to a restaurant and ordering food The visualization is the food you see on the table nicely presented The quality the taste and everything else come 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 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 engine capable of preparing the data in the format you need The good news is that to learn Power Query you don t need to know programming Power Query is for citizen data engineers However this doesn t mean that Power Query is not capable of performing advanced transformation 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 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 articles and published videos about it The number of articles we published under this subject easily exceeds hundreds Through those articles some of the fundamentals and key learnings of Power Query are explained We thought it is good to compile some of them in a book 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 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 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 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 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 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 examples can be easily applied to Excel Dataflows and other tools and services using Power Query

Transformative Magic of M Code in Power Query Excel & Power BI MrExcel's Holy Macro! Books, Mike Girvin, 2024-12-17 Master M Code to transform and analyze data in Power Query for Excel and Power BI Explore advanced techniques and build custom solutions with confidence Key Features Emphasis on foundational M Code and advanced techniques Inclusion of practical projects for real world learning In depth exploration of privacy and security concerns related to data Book Description This book begins with the fundamentals introducing key concepts like let expressions keywords and identifiers before guiding you through more advanced techniques such as creating custom functions handling diverse data types and building reusable queries Each chapter combines theoretical insights with practical examples empowering you to handle complex data challenges with confidence As you progress you ll learn how to master lookup formulas manipulate data with unpivot append join and group operations and explore advanced table transformations A dedicated section on data connectors provides in depth knowledge of importing data from various sources and locales ensuring flexibility and adaptability The book concludes with practical data modeling projects that include handling inconsistent tables appending multiple files and building dynamic SharePoint connections With a final focus on privacy levels and data security this book equips you to use Power Query effectively and securely in real world scenarios What you will learn Understand Power Query and M Code fundamentals Work with type values and expressions Create reusable custom functions Master lookup formulas with M Code Handle data from various connectors effectively Perform data modeling with practical projects Who this book is for Data analysts business intelligence professionals Excel and Power BI users advanced Excel users transitioning to Power BI will find this book really helpful A working knowledge of Excel and a basic understanding of Power BI are recommended

The Transformative Magic of M Code in Power Query Excel & Power BI Mike ExcelisFun Girvin, 2024-04-01 This book is about Power Query and M Code Power Query and the functional language M Code M are the heart and soul of Microsoft s power data analysis tools Excel Power BI Desktop and Dataflows The beautiful data driven and insightful PivotTables Power BI solutions and Dashboards that you create usually require that you use Power Query and M Code to get transform and load the data before you create the final reports and visuals For many data analysis jobs using the SQL language to perform ETL extract transform and load is the preferred tool Maybe even R or Python But if you use Power BI or Excel you better also be masterful with M Code and

Power Query Together they give you the power to connect to multiple data sources structuring your data with ease and load to the worksheet the data model in Excel or Power BI or Dataflow s Data Hub As an accountant professor data analyst author Excel MVP and YouTuber for about 20 years my specialty is in telling stories with videos and books to make complicated things less complicated and to inspire you to have fun with the power you can gain over data

Power Query Cookbook Andrea Janicijevic,2021-10-15 Leverage your source data from hundreds of different connections perform millions of different transformations and easily manage highly complex data lifecycles with Power Query Key FeaturesCollect combine and transform data using Power Query s data connectivity and data preparation featuresOvercome the problems faced while accessing data from multiple sources and reshape it to meet your business requirementsExplore how the M language can be used to write your own customized solutionsBook Description Power Query is a data preparation tool that enables data engineers and business users to connect reshape enrich and transform 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 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 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 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 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 learnUnderstand how to use Power Query to connect and 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 against data sourcesUse the Power Query Online tool within Power BI DataflowsImplement best practices such as reusing dataflows optimizing expanding table operations and field mappingWho this book is for 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 complexity Beginner level knowledge of Power BI and the M Language will help you to get the best out of this book

Power Query Beyond The User Interface Chandeeep Chhabra,2025-02-28 About the Book This book is a practical guide for business users who rely on Microsoft Power Query to clean and transform messy data It explains how to go beyond the user interface by focusing on the M language behind Power Query This is not a conventional textbook Three key things set it apart 1 It shows how to think and build solutions not just how to use M functions Readers can apply what they learn to their own data 2 It includes practical real life examples from different industries along with exercises at the end of each chapter to reinforce understanding 3 It has plenty of illustrations and diagrams at each step so you can follow

along even without being at your computer The book starts with foundational concepts like working with lists tables and records then covers advanced topics such as nested tables iterations custom functions and common data cleaning patterns

Who Is This Book For You already know the clicks of Power Query either in Excel or Power BI You already know how to create basic queries that can combine data remove columns filter and unpivot rows You have come across a few data cleaning problems that make you wonder How am I going to do that Whether you re new to Power Query or already know the basics this book will help you use this powerful data transformation tool more effectively

Collect, Combine, and Transform Data Using Power Query in Power BI and Excel Daniil Maslyuk, Gil Raviv, 2024-12-12 Transform your data analysis experience with Power Query the ultimate tool for importing reshaping and cleansing data through a user friendly interface Whether you re using Power BI Excel or other Microsoft products Power Query s capabilities are at your fingertips Renowned Power Query experts Daniil Maslyuk and Gil Raviv guide you through mastering this indispensable tool helping you eliminate tedious manual data preparation tackle common issues and avoid potential pitfalls In this updated edition you ll delve into comprehensive analytics challenges seamlessly integrating your skills into a realistic final project By the end you ll possess the expertise to handle any data and convert it into actionable insights You will learn how to Effortlessly prepare data by utilizing Power Query in Power BI and Excel to transform your data quickly and efficiently Overcome common data preparation problems with intuitive mouse clicks and straightforward formula edits Combine data from various sources multiple queries and mismatched tables with ease Reshape tables to suit your analysis needs Use the Power Query M formula language to create flexible data mashups and tailor transformations to your requirements Address and overcome collaboration challenges by using Power Query s powerful features Gain crucial insights from text feeds by enhancing your data analysis capabilities Profile data diagnose queries improve query performance and more

About This Book For everyone who wants to get more done with Power Query in less time For business and financial professionals developers entrepreneurs students and others who need to efficiently manage and analyze data

96 Common Challenges in Power Query Omid Motamedisedeh, 2025-06-18 This comprehensive guide is designed to address the most frequent and challenging issues faced by users of Power Query a powerful data transformation tool integrated into Excel Power BI and Microsoft Azure By tackling 96 real world problems with practical step by step solutions this book is an essential resource for data analysts Excel enthusiasts and Power BI professionals It aims to enhance your data transformation skills and improve efficiency in handling complex data sets Structured into 12 chapters the book covers specific areas of Power Query such as data extraction referencing column splitting and merging sorting and filtering and pivoting and unpivoting tables You will learn to combine data from Excel files with varying column names handle multi row headers perform advanced filtering and manage missing values using techniques such as linear interpolation and K nearest neighbors K NN imputation The book also dives into advanced Power Query functions such as Table Group List Accumulate and List Generate explored through practical

examples such as calculating running totals and implementing complex grouping and iterative processes. Additionally, it covers crucial topics such as error handling strategies, custom function creation, and the integration of Python and R with Power Query. In addition to providing explanations on the use of functions and the M language for solving real-world challenges, this book discusses optimization techniques for data cleaning processes and improving computational speed. It also compares the execution time of functions across different patterns and proposes the optimal approach based on these comparisons. In today's data-driven world, mastering Power Query is crucial for accurate and efficient data processing. But as data complexity grows, so do the challenges and pitfalls that users face. This book serves as your guide through the noise and your key to unlocking the full potential of Power Query. You'll quickly learn to navigate and resolve common issues, enabling you to transform raw data into actionable insights with confidence and precision.

What You Will Learn: Master data extraction and transformation techniques for various Excel file structures. Apply advanced filtering, sorting, and grouping methods to organize and analyze data. Leverage powerful functions such as Table Group List, Accumulate, and List Generate for complex transformations. Optimize queries to execute faster. Create and utilize custom functions to handle iterative processes and advanced list transformation. Implement effective error handling strategies, including removing erroneous rows and extracting error reasons. Customize Power Query solutions to meet specific business needs and share custom functions across files.

Who This Book Is For: Aspiring and developing data professionals using Power Query in Excel or Power BI who seek practical solutions to enhance their skills and streamline complex data transformation workflows.

Excel Power Pivot & Power Query For Dummies Michael Alexander, 2016-04-04. A guide to PowerPivot and Power Query: no data cruncher should be without. Want to familiarize yourself with 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 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 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 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, 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 territories like relational databases, data integration, and multi-dimensional reporting. Demonstrates how Power Query is used to discover, connect to, and import 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 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 you up and running with the rich set of Excel tools and reporting capabilities that will make your life and work easier.

Getting started with Power Query in Power BI and Excel Reza Rad, Leila

Etaati,2021-08-27 Any data analytics solution requires data population and preparation With the rise of data analytics solutions these years the need for this data preparation becomes even more essential Power BI is a helpful data analytics tool that is used worldwide by many users As a Power BI or Microsoft BI developer it is essential to learn how to prepare the data in the right shape and format needed You need to learn how to clean the data and build it in the structure that can be modeled easily and used high performant for visualization Data preparation and transformation is the backend work If you consider building a BI system as going to a restaurant and ordering food The visualization is the food you see on the table nicely presented The quality the taste and everything else comes from the hard work in the kitchen The part that you don t see or the backend in the world of Power BI is Power Query You may be already familiar with some other data preparation and data transformation technologies such as T SQL SSIS Azure Data Factory Informatica etc Power Query is a data transformation engine capable of preparing the data in the format you need The good news is that to learn Power Query you don t need to know programming Power Query is for citizen data engineers However this doesn t mean that Power Query is not capable of performing advanced transformation Unfortunately because Power Query and data preparation is the kitchen work of the BI system many Power BI users skip the learning of it and become aware of it somewhere along their BI project Once they get familiar with it they realize there are tons of things they could have implemented easier faster and in a much more maintainable way using Power Query In other words they learn mastering Power Query is the key skill toward mastering Power BI We have been working with Power Query since the very early release of that in 2013 named Data Explorer and wrote blog articles and published videos about it The number of articles we published under this subject easily exceeds hundreds Through those articles some of the fundamentals and key learnings of Power Query are explained We thought it is good to compile some of them in a book A good analytics solution combines a good data model good data preparation and good analytics and calculations Reza has written another book about the Basics of modeling in Power BI and a book on Power BI DAX Simplified This book is covering the data preparation and transformations aspects of it This book is for you if you are building a Power BI solution Even if you are just visualizing the data preparation and transformations are an essential part of analytics You do need to have the cleaned and prepared data ready before visualizing it This book is compiled into a series of two books which will be followed by a third book later Getting started with Power Query in Power BI and Excel this book Mastering Power Query in Power BI and Excel already available to be purchased separately Power Query dataflows will be published later Although this book is written for Power BI and all the examples are presented using the Power BI However the examples can be easily applied to Excel Dataflows and other tools and services using Power Query

Power Query for Power BI and Excel Christopher Webb,Crossjoin Consulting Limited,2014-07-05 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 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 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 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 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 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 **The**

Transformative Magic of M Code in Power Query Excel & Power BI Mike Girvin, 2024-04 This book is about Power Query and M Code Power Query and the functional language M Code M are the heart and soul of Microsoft's power data analysis tools Excel Power BI Desktop and Dataflows The beautiful data driven and insightful PivotTables Power BI solutions and Dashboards that you create usually require that you use Power Query and M Code to get transform and load the data before you create the final reports and visuals For many data analysis jobs using the SQL language to perform ETL extract transform and load is the preferred tool Maybe even R or Python But if you use Power BI or Excel you better also be masterful with M Code and Power Query Together they give you the power to connect to multiple data sources structuring your data with ease and load to the worksheet the data model in Excel or Power BI or Dataflow's Data Hub As an accountant professor data analyst author Excel MVP and YouTuber for about 20 years my specialty is in telling stories with videos and books to make complicated things less complicated and to inspire you to have fun with the power you can gain over data

Master Your Data with Power Query in Excel and Power BI Miguel Escobar, Ken Puls, 2021-11-01 Power Query is the amazing 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 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 **Microsoft Works 2.0** Cheryl Boche, Laura Bement, 1993-01-01 South Western's easy

reference guides represent the fastest way to look up software functions **Learn Power Query** Linda Foulkes, Warren Sparrow, 2020-07-17 This book will effectively guide you through Power Query starting with the shortcomings of other tools with regard to data analysis and management You'll then delve into the Power Query interface understand how to connect combine and refine data with query tools and finally create dashboards and multi dimensional reports in Power Query

Power Pivot and Power BI Rob Collie, Avichal Singh, 2015-12-01 Microsoft PowerPivot is a free add on to Excel from

Microsoft 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 audience Written by the world s foremost PowerPivot blogger and practitioner the book s concepts and approach are introduced in a step by step manner tailored to the learning style of Excel users 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 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 from those seminars costing thousands of dollars per day are now available within the pages of this easy to follow guide This updated edition covers new features introduced with Office 2015

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Table of Contents Power Query M Function Reference Msdn Microsoft Com

1. Understanding the eBook Power Query M Function Reference Msdn Microsoft Com
 - The Rise of Digital Reading Power Query M Function Reference Msdn Microsoft Com
 - Advantages of eBooks Over Traditional Books
2. Identifying Power Query M Function Reference Msdn Microsoft Com
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Power Query M Function Reference Msdn Microsoft Com
 - User-Friendly Interface
4. Exploring eBook Recommendations from Power Query M Function Reference Msdn Microsoft Com
 - Personalized Recommendations

- Power Query M Function Reference Msdn Microsoft Com User Reviews and Ratings
- Power Query M Function Reference Msdn Microsoft Com and Bestseller Lists
- 5. Accessing Power Query M Function Reference Msdn Microsoft Com Free and Paid eBooks
 - Power Query M Function Reference Msdn Microsoft Com Public Domain eBooks
 - Power Query M Function Reference Msdn Microsoft Com eBook Subscription Services
 - Power Query M Function Reference Msdn Microsoft Com Budget-Friendly Options
- 6. Navigating Power Query M Function Reference Msdn Microsoft Com eBook Formats
 - ePub, PDF, MOBI, and More
 - Power Query M Function Reference Msdn Microsoft Com Compatibility with Devices
 - Power Query M Function Reference Msdn Microsoft Com Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Power Query M Function Reference Msdn Microsoft Com
 - Highlighting and Note-Taking Power Query M Function Reference Msdn Microsoft Com
 - Interactive Elements Power Query M Function Reference Msdn Microsoft Com
- 8. Staying Engaged with Power Query M Function Reference Msdn Microsoft Com
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Power Query M Function Reference Msdn Microsoft Com
- 9. Balancing eBooks and Physical Books Power Query M Function Reference Msdn Microsoft Com
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Power Query M Function Reference Msdn Microsoft Com
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Power Query M Function Reference Msdn Microsoft Com
 - Setting Reading Goals Power Query M Function Reference Msdn Microsoft Com
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Power Query M Function Reference Msdn Microsoft Com
 - Fact-Checking eBook Content of Power Query M Function Reference Msdn Microsoft Com

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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