

## Dax Formulas For Powerpivot A Simple To The Excel Revolution

250 + ready-to-use, powerful DAX formulas Develop effective business intelligence (BI) solutions and drive faster, better decision making across your enterprise with help from an experienced database consultant and trainer. Through clear explanations, screenshots, and examples, Practical PowerPivot & DAX Formulas for Excel 2010 shows you how to extract actionable insights from vast amounts of corporate data. More than 250 downloadable DAX formulas plus valuable appendixes covering SQL, MDX, and DMX query design are included in this hands-on guide. Build pivot tables and charts with PowerPivot for Excel Import information from Access, Excel, data feeds, SQL Server, and other sources Organize and format BI reports using the PowerPivot Field List Write DAX formulas that filter, sort, average, and denormalize data Construct complex DAX formulas from statistical, math, and date functions Compare current and past performance using date and time intelligence Handle non-additive numbers, non-numeric values, and running totals Develop complete self-service and sharable BI solutions in a few minutes Download the source code from [www.mhprofessional.com/computingdownload](http://www.mhprofessional.com/computingdownload) Written by a Microsoft MVP, this book teaches you the practical skills to take the most of DAX from whatever angle you'd like to approach it. It's written for data analysts using Power BI or Power Pivot, BI developers targeting Analysis Services Tabular, and in general anyone who's interested in DAX. You'll learn DAX methodically with self-paced lessons that build upon your previous knowledge to introduce progressively more challenging concepts. Each lesson starts with providing the necessary theoretical background, followed

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by step-by-step exercises. Most lessons are five to six pages long, and it should take you no more than 15 minutes to complete the practices. Do one lesson per day and become a DAX expert in a month! The book page at <https://prologika.com/daxbook> provides sample chapters, source code, and a discussion forum where the author welcomes your feedback and questions. WHAT'S INSIDE:

**CALCULATED COLUMNS** Create custom columns Navigate relationships Assemble dashboards with a few clicks Aggregate and rank data Implement groups and bins Create calculated tables  
**MEASURES** Implicit and explicit measures Work with user selection Create variables Overwrite filter context Group data Apply time intelligence  
**QUERIES** Create and test DAX queries Implement query measures Analyze query performance Implement paginated reports  
**ADVANCED TOPICS** Recursive relationships Many-to-many relationships Virtual relationships Different join types Data security patterns and much more ...

This comprehensive and authoritative guide will teach you the DAX language for 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. 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 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, including calculated columns, measures, and error handling Understand evaluation contexts and the CALCULATE and CALCULATETABLE functions Perform time-based

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calculations: YTD, MTD, previous year, working days, 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 Measure DAX query performance with SQL Server Profiler and DAX Studio 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

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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.

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 Excel features and tricks to make your data analysis & reporting easier and will save

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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 Microsoft Office 365 ? Easy to Read Step by Step Guide with Screenshots ? Downloadable Practice Excel Workbooks for each Tip & Trick ? You also get a FREE BONUS downloadable PDF version of this book! This book is a MUST-HAVE for Beginner to Intermediate Excel users who want to learn Microsoft Excel FAST & stand out from the crowd! The comprehensive reference, now completely up-to-date for Excel 2013! As the standard for spreadsheet applications, Excel is used worldwide - but it's not always user-friendly. However, in the hands of veteran bestselling author Greg Harvey, Excel gets a whole lot easier to understand! This handy all-in-one guide covers all the essentials, the new features, how to analyze data with Excel, and much more. The featured minibooks address Excel basics, worksheet design, formulas and functions, worksheet collaboration and review, charts and graphics, data management, data analysis, and Excel and VBA. Covers the changes in the newest version as well as familiar tasks, such as creating and editing worksheets, setting up formulas, and performing statistical functions Walks you through the new analysis tools that help make it easier to visualize data with the click of a mouse Details new ways to explore your data more intuitively and then analyze and display your results with a single click Whether you're an Excel newbie or a veteran user to wants to get familiar with the latest version, Excel 2013 All-in-One For Dummies has everything you need to know. Offers information on the patterns and techniques of the formula language DAX.

Data Analysis Expressions (DAX) allow Microsoft Excel users to create powerful calculated fields in Power Pivot. In this course-the third and final installment of the Excel 476536564

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Intelligence series-experienced Excel trainer Chris Dutton spells out how to use the DAX language and Power Pivot to explore and analyze relational data models. Chris picks up where he left off in the previous installment of the series, demonstrating how to add calculated columns and measures to data models in Excel. He highlights the differences between calculated columns and DAX measures, covers common DAX formulas and functions, and discusses best practices for working with DAX and Power Pivot.

Solve real-world business problems by learning how to create common industry key performance indicators and other calculations using DAX within Microsoft products such as Power BI, SQL Server, and Excel. Key Features Learn to write sophisticated DAX queries to solve business intelligence and data analytics challenges Handle performance issues and optimization within the data model, DAX calculations and more Solve business issues with Microsoft Excel, Power BI, and SQL Server using DAX queries Book Description DAX provides an extra edge by extracting key information from the data that is already present in your model. Filled with examples of practical, real-world calculations geared toward business metrics and key performance indicators, this cookbook features solutions that you can apply for your own business analysis needs. You'll learn to write various DAX expressions and functions to understand how DAX queries work. The book also covers sections on dates, time, and duration to help you deal with working days, time zones, and shifts. You'll then discover how to manipulate text and numbers to create dynamic titles and ranks, and deal with measure totals. Later, you'll explore common business metrics for finance, customers, employees, and projects. The book will also show you how to implement common industry metrics such as days of supply, mean time between failure, order cycle time and overall equipment effectiveness. In the

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concluding chapters, you'll learn to apply statistical formulas for covariance, kurtosis, and skewness. Finally, you'll explore advanced DAX patterns for interpolation, inverse aggregators, inverse slicers, and even forecasting with a deseasonalized correlation coefficient. By the end of this book, you'll have the skills you need to use DAX's functionality and flexibility in business intelligence and data analytics. What you will learn Understand how to create common calculations for dates, time, and duration Create key performance indicators (KPIs) and other business calculations Develop general DAX calculations that deal with text and numbers Discover new ideas and time-saving techniques for better calculations and models Perform advanced DAX calculations for solving statistical measures and other mathematical formulas Handle errors in DAX and learn how to debug DAX calculations Understand how to optimize your data models Who this book is for Business users, BI developers, data analysts, and SQL users who are looking for solutions to the challenges faced while solving analytical operations using DAX techniques and patterns will find this book useful. Basic knowledge of the DAX language and Microsoft services is mandatory.

Microsoft PowerPivot for Excel 2010: Give Your Data Meaning introduces PowerPivot in Excel 2010 to power users and data analysts who want to give their data meaning by creating their own Business Intelligence models. And with Microsoft Excel 2010: Data Analysis and Business Modeling, you'll learn the best ways to use Office Excel 2010 for data analysis and business modeling. Award-winning professor and statistician Wayne Winston shares practical examples to help you transform data into bottom-line results. Web site includes practice files. The two books included in this kit are:  
9780735640580 Microsoft PowerPivot for Excel 2010  
9780735643369 Microsoft Office Excel 2007: Data Analysis

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and Business Modeling, 3E

Shows readers how to perform complex data analysis, create reports with the data analysis expressions language, and add hierarchies to data models to enable faster browsing.

An active reading experience to learn DAX Power Pivot is an embedded database that significantly improves the business intelligence (BI) reporting an analytics capabilities of Microsoft Excel (versions 2010 and above). Data analysis expressions (DAX) is the formula language of Power Pivot. Learning the DAX language is key to empower Excel users so they can take advantage of these new BI capabilities, however unfortunately simply reading a book is normally not enough for Excel users to learn the DAX language – most people will also need some practice. Learn to Write DAX is different to other books - it is written in such a way to clearly explain the concepts of Power Pivot while at the same time giving hands-on practice to deeply engage the reader and to help the new knowledge and concepts stick. The book first presents the theory, then provides worked through sample exercises demonstrating each of the concepts, and finally it provides the reader with practice exercises and answers to maximize learning retention. This is the second edition of the book Learn to Write DAX. This second edition has been updated for the Excel 2016 user interface while still providing a bridge for readers wanting to learn DAX in the Excel environment and then transfer their new DAX skills across to Power BI. Learn the intricate workings of DAX and the mechanics that are necessary to solve advanced Power BI challenges. This book is all about DAX (Data Analysis Expressions), the formula language used in Power BI—Microsoft’s leading self-service business intelligence application—and covers other products such as PowerPivot and SQL Server Analysis Services Tabular. You will learn how to leverage the advanced applications of DAX to solve complex tasks. Often

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a task seems complex due to a lack of understanding, or a misunderstanding of core principles, and how certain components interact with each other. The authors of this book use solutions and examples to teach you how to solve complex problems. They explain the intricate workings of important concepts such as Filter Context and Context Transition. You will learn how Power BI, through combining DAX building blocks (such as measures, table filtering, and data lineage), can yield extraordinary analytical power. Throughout Pro Dax with Power BI these building blocks are used to create and compose solutions for advanced DAX problems, so you can independently build solutions to your own complex problems, and gain valuable insight from your data. What You Will Learn Understand the intricate workings of DAX to solve advanced problems Deconstruct problems into manageable parts in order to create your own recipes Apply predefined solutions for addressing problems, and link back step-by-step to the mechanics of DAX, to know the foundation of this powerful query language Get fully on board with DAX, a new and evolving language, by learning best practices Who This Book Is For Anyone who wants to use Power BI to build advanced and complex models. Some experience writing DAX is helpful, but not essential if you have experience with other data query languages such as MDX or SQL.

Reinforce your understanding of Excel with these Workbook exercises Boost your knowledge of important Excel tasks by putting your skills to work in real-world situations. The For Dummies Workbook format provides more than 100 exercises that help you create actual results with Excel so you can gain proficiency. Perfect for students, people learning Excel on their own, and financial professionals who must plan and execute complex projects in Excel, Excel 2010 Workbook For Dummies helps you discover all the ways this program can

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work for you. Excel is the world's most popular number-crunching program, and For Dummies books are the most popular guides to Excel The Workbook approach offers practical application, with more than 100 exercises to work through and plenty of step-by-step guidance This guide covers the new features of Excel 2010, includes a section on creating graphic displays of information, and offers ideas for financial planners Also provides exercises on using formulas and functions, managing and securing data, and performing data analysis A companion CD-ROM includes screen shots and practice materials Excel 2010 Workbook For Dummies helps you get comfortable with Excel so you can take advantage of all it has to offer. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Power Query is one component of the Power BI (Business 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 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.

Active learning lessons for mastering DAX Data analysis expressions (DAX) is the formula language of PowerPivot and this book is written to give hands-on practice to anyone who wants to become competent at writing such formulas. Sample exercises that explain each concept are provided and followed by practice questions and answers to maximize learning and experience with DAX.

Power BI is a powerful self-service (and enterprise) business intelligence (BI) tool that was first made

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generally available by Microsoft in July 2015. Power BI is a complete BI package that covers the end to end BI process including data acquisition (get data), data modelling (prepare/model the data) and data visualisation (analyse the data). And there is a lot of good news about this tool including the fact that the skills needed to succeed with Power BI are fully transferable to Microsoft Excel. There are 3 learning areas required to master everything Power BI Desktop has to offer. 1. The M Language - used for data acquisition 2. The DAX Language - used to prepare and model data 3. Visualisation and analysis - used to present data in a compelling way Power BI is probably the first commercial grade software product that brings all of these areas into a single software package that is completely accessible to a business user (you don't need to be an IT pro). This book focuses on number 2 above, the DAX language (Data Analysis Expressions). Super Charge Power BI Desktop is the second book written by Matt Allington and is a sister book to his first book Learn to Write DAX (first released Dec 2015). Super Charge Power BI Desktop uses the same learning and practice exercise framework as used in Learn to Write DAX however the entire book is written using the Power BI Desktop user interface. Unfortunately simply reading a book is normally not enough for Excel users wanting to get the most out of Power BI Desktop and to learn the DAX language - most people will also need some practice. Super Charge Power BI Desktop is different to other books - it is written in such a way to clearly explain the concepts of Power BI data modelling while at the same time giving hands-on

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practice to deeply engage the reader to help the new knowledge and concepts stick. The book first presents the theory, then provides worked through sample exercises demonstrating each of the concepts, and finally it provides the reader with practice exercises and answers to maximize learning retention.

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 simple, 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. It includes lessons on the 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 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 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 from those

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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.

Attention all SQL Pros, DAX is not just for writing Excel-based formulas! Get hands-on learning and expert advice on how to use the vast capabilities of the DAX language to solve common data modeling challenges. Beginning DAX with Power BI teaches key concepts such as mapping techniques from SQL to DAX, filtering, grouping, joining, pivoting, and using temporary tables, all aimed at the SQL professional. Join author Philip Seamark as he guides you on a journey through typical business data transformation scenarios and challenges, and teaches you, step-by-step, how to resolve challenges using DAX. Tips, tricks, and shortcuts are included and explained, along with examples of the SQL equivalent, in order to accelerate learning. Examples in the book range from beginner to advanced, with plenty of detailed explanation when walking through each scenario. What You'll Learn Turbocharge your Power BI model by adding advanced DAX programming techniques Know when to use calculated measures versus calculated columns Generate new tables on the fly from existing data Optimize, monitor, and tune Power BI to improve performance of your models Discover new ideas, tricks, and time-saving techniques for better models Who This Book Is For Business intelligence developers, business analysts, or any SQL user who wants to use Power BI as a reporting tool. A solid understanding of SQL is recommended, as examples

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throughout the book include the DAX equivalents to SQL problem/solution scenarios.

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DAX Formulas for PowerPivotThe Excel Pro's Guide to Mastering DAXTickling Keys, Inc.

Renowned DAX experts Alberto Ferrari and Marco Russo teach you how to design data models for maximum efficiency and effectiveness. How can you use Excel and Power BI to gain real insights into your information? As you examine your data, how do you write a formula that provides the numbers you need? The answers to both of these questions lie with the data model. This book introduces the basic techniques for shaping data models in Excel and Power BI. It's meant for readers who are new to data modeling as well as for experienced data modelers looking for tips from the experts. If you want to use Power BI or Excel to analyze data, the many real-world examples in this book will help you look at your reports in a different way—like experienced data modelers do. As you'll soon see, with the right data model, the correct answer is always a simple one! By reading this book, you will:

- Gain an understanding of the basics of data modeling, including tables, relationships, and keys
- Familiarize yourself with star schemas, snowflakes, and common modeling techniques
- Learn the importance of granularity
- Discover how to use multiple fact tables, like sales and purchases, in a complex data model
- Manage calendar-related calculations by using date tables
- Track historical attributes, like previous addresses of customers or manager assignments
- Use snapshots to compute quantity on hand
- Work with multiple currencies in the most efficient way
- Analyze events that have durations, including overlapping durations

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Learn what data model you need to answer your specific business questions About This Book • For Excel and Power BI users who want to exploit the full power of their favorite tools • For BI professionals seeking new ideas for modeling data

Microsoft's revolutionary Power Pivot is a tool that allows users to create and transform data into reports and dashboards in new and much more powerful ways using the most-used analytical tool in the world: Excel. This book, written by a member of Microsoft's Power Pivot team, provides a practical step by step guide on creating a financial dashboard. The book covers in detail how to combine and shape the relevant data, build the dashboard in Excel, providing layout and design tips and tricks, prepare the model to work with fiscal dates, and show values used in many financial reports, including year-to-date, variance-to-target, percentage-of-total, and running totals reports. Accessibly written, this book offers readers a practical, real-world scenario and can be used as a day-to-day reference. Though the guide focuses on Power Pivot for Excel 2010, a chapter that discusses Power View—compatible with Excel 2013—and Power BI is also included.

Microsoft's Power Pivot is an add-on to Excel that enables you to produce new kinds of reports and analyses that were simply impossible before. This book is the first to tackle DAX formulas, the core capability of Power Pivot, from the perspective of the Excel audience. Written by a leading Power Pivot educator (and former leader on the Power Pivot and Excel teams at Microsoft), the book's concepts and approach are introduced in a

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simple, 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. In this book you will learn how Power Pivot:

- 1) Gives you "portable" formulas that can be re-used across multiple different reports with a single click.
- 2) Removes the need to ever write a VLOOKUP formula again.
- 3) Allows you to add smart calculations to pivots, such as "Year over Year" and "Moving Averages" which auto-adjust as the pivot changes.
- 4) Effortlessly merges disjointed sets of data into unified insight.

As a bonus, Power Pivot and DAX formulas are both the heart AND brain of Microsoft's "Power BI" system, giving us a long-needed bridge between the worlds of Excel and Business Intelligence – a bridge that any Excel PivotTable user can cross with the help of this easy-to-follow book. Your new career – and your organization's future – starts within these pages

**ANALYZE HUGE AMOUNTS OF BUSINESS DATA FASTER, MORE EASILY, AND MORE ACCURATELY!** Use Microsoft's free PowerPivot add-in for Excel 2010 to analyze immense amounts of data from any source, perform state-of-the-art business analysis far more easily, and make better decisions in less time! Simple, step-by-step instructions walk you through installing PowerPivot, importing data, using PivotTables with PowerPivot, using super-powerful DAX functions and measures, reporting to print or SharePoint, and a whole lot more. Whatever your Excel data analysis experience, this book will help you use PowerPivot to get the right answers, right now—without IT's help! Import and integrate data from spreadsheets, SQL Server, Access,

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Oracle, text files, Atom data feeds, and other sources  
Analyze multiple tables together, without complicated  
VLOOKUPS Format, sort, and filter data in the PowerPivot  
window Add calculated columns using new DAX functions  
Create powerful reports from PowerPivot data—and format  
them so executives instantly get your point Discover  
PivotTable tricks that work even better in PowerPivot Control  
multiple PivotTable elements on one worksheet, with one set  
of Excel 2010 Slicers Use DAX Measures to quickly perform  
tasks that were difficult or impossible with Calculated Fields  
Compare today's sales to yesterday's—or to sales from the  
parallel period last fiscal year. Use Named Sets to prepare  
asymmetric reports, show actuals for past months and plan  
for future months.

Advance your everyday proficiency with Excel! And earn the  
credential that proves it! Demonstrate your expertise with  
Microsoft Excel! Designed to help you practice and prepare  
for Microsoft Office Specialist: Excel Associate (Excel and  
Excel 2019) certification, this official Study Guide delivers: In-  
depth preparation for each MOS objective Detailed  
procedures to help build the skills measured by the exam  
Hands-on tasks to practice what you've learned Ready-made  
practice files Sharpen the skills measured by these  
objectives: Manage Worksheets and Workbooks Manage  
Data Cells and Ranges Manage Tables and Table Data  
Perform Operations by Using Formulas and Functions  
Manage Charts About MOS A Microsoft Office Specialist  
(MOS) certification validates your proficiency with Microsoft  
Office programs, demonstrating that you can meet globally  
recognized performance standards. Hands-on experience  
with the technology is required to successfully pass Microsoft  
Certification exams.

Power Query for Power BI and Excel is a book for people who  
are tired of copying and pasting data into Excel worksheets.

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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

Updating the previous edition's tips to include features in Excel 2013, this new edition of Mr. Excel's popular software guide even incorporates suggestions sent in by readers. Each featured topic has a problem statement and description, followed by a broad strategy for solving the problem. Mr. Excel then walks readers through the specific steps to solve the issue. Alternate strategies are also provided, along with common scenarios that trip users up, leaving readers with not only answers to their specific dilemmas but also new and quicker ways to use formulas and spreadsheets.

PowerPivot is an amazing new add-in for Excel 2013 that

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allows business intelligence pros to process large amounts data. Although it is simple to use in a demo environment, analysts are likely to run into real-life scenarios that are difficult to solve. This guide, dedicated solely to the PowerPivot tool, provides techniques and solutions to real-world problems, including showing the Top N customers by using slicer filters, comparing budget to actuals, drilling across data instead of through data, and joining data from two different sources in a single analysis.

New for Office 365 customers, one single formula sitting in one single cell can return many results. Those extra results will spill into adjacent cells. This is a major change to the calculation engine in Excel. This book covers the new functions added for Dynamic Arrays: SORT, SORTBY, FILTER, UNIQUE, SEQUENCE and RANDARRAY. It shows how Dynamic Arrays make the new XLOOKUP even more powerful. Dynamic arrays make every Excel calculation function more powerful. Pass a SEQUENCE to another function and Excel will Lift the function to return many results. Learn how to use the new # and @ operators in your formulas. After fifteen months of preview, the Dynamic Arrays are reaching general availability. Learn how the FastExcel SpeedTools add-in offers much-needed improvements, such as TOTALS, SLICES, VSTACK and UNPIVOT. Join in lobbying the Excel team to incorporate these improvements. 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

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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.

Implement business intelligence (BI), data modeling, and data analytics within Microsoft products such as Power BI, SQL Server, and Excel Key Features Understand the ins and outs of DAX expressions and querying functions with the help of easy-to-follow examples Manipulate data of varying complexity and optimize BI workflows to extract key insights Create, monitor, and improve the performance of models by writing clean and robust DAX queries Book Description Data Analysis Expressions (DAX) is known for its ability to increase efficiency by extracting new information from data that is already present in your model. With this book, you'll learn to use DAX's functionality and flexibility in the BI and data analytics domains. You'll start by learning the basics of DAX, along with understanding the importance of good data models, and how to write efficient DAX formulas by using variables and formatting styles. You'll then explore how DAX queries work with the help of examples. The book will guide you through optimizing the BI workflow by writing powerful DAX queries. Next, you'll learn to manipulate and load data of varying complexity within Microsoft products such as Power BI, SQL Server, and Excel Power Pivot. You'll then discover how to build and extend your data models to gain additional insights, before covering progressive DAX syntax and functions to understand complex relationships in DAX. Later, you'll focus on important DAX functions, specifically

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those related to tables, date and time, filtering, and statistics. Finally, you'll delve into advanced topics such as how the formula and storage engines work to optimize queries. By the end of this book, you'll have gained hands-on experience in employing DAX to enhance your data models by extracting new information and gaining deeper insights. What you will learn Understand DAX, from the basics through to advanced topics, and learn to build effective data models Write and use DAX functions and expressions with the help of hands-on examples Discover how to handle errors in your DAX code, and avoid unwanted results Load data into a data model using Power BI, Excel Power Pivot, and SSAS Tabular Cover DAX functions such as date, time, and time intelligence using code examples Gain insights into data by using DAX to create new information Understand the DAX VertiPaq engine and how it can help you optimize data models Who this book is for This book is for data analysts, business analysts, BI developers, or SQL users who want to make the best use of DAX in the BI and data analytics domain with the help of examples. Some understanding of BI concepts is mandatory to fully understand the concepts covered in the book. Your one-stop guide to all things Excel 2016 Excel 2016 All-in-One For Dummies, the most comprehensive Excel reference on the market, is completely updated to reflect Microsoft's changes in the popular spreadsheet tool. It offers you everything you need to grasp basic Excel functions, such as creating and editing worksheets, setting up formulas, importing data, performing statistical functions, editing macros with Visual Basic—and beyond. In no time, your Excel skills will go from 'meh' to excellent. Written by expert Greg Harvey, who has sold more than 4.5 million copies of his previous books combined and has taught and trained extensively in Microsoft Excel, this all-encompassing guide offers everything you need to get started with Excel. From generating pivot

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tables and performing financial functions to performing error trapping and building and running macros—and everything in between—this hands-on, friendly guide makes working with Excel easier than ever before. Serves as the ideal reference for solving common questions and Excel pain points quickly and easily Helps to increase productivity and efficiency when working in Excel Fully updated for the new version of Excel Covers basic and more advanced Excel topics If working in Excel occasionally makes you want to scream, this will be the dog-eared, dust-free reference you'll turn to again and again. Discover how you can combine data from various sources to create data models to suit your business requirements with the help of this clear and concise guide

### Key Features

Understand how Power Query overcomes the shortcomings of Excel Power Pivot in handling complex data Create customized dashboards and multi-dimensional reports using Power Query and Power BI Learn the Power Query M language and write advanced queries using custom functions

### Book Description

Power Query is a data connection technology that allows you to connect, combine, and refine data from multiple sources to meet your business analysis requirements. With this Power Query book, you'll be empowered to work with a variety of data sources to create interactive reports and dashboards using Excel and Power BI. You'll start by learning how to access Power Query across different versions of Excel and install the Power BI engine. After you've explored Power Pivot, you'll see why Excel users find it challenging to clean data in Power Pivot and learn how Power Query can help to tackle the problem. The book will show you how to transform data using the Query Editor and write functions in Power Query. A dedicated section will focus on functions such as IF, Index, and Modulo, and creating parameters to alter query paths in a table. You'll also work with dashboards, get to grips with multi-dimensional reporting,

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and create automated reports. As you advance, you'll cover the M formula language in Power Query, delve into the basic M syntax, and write the M query language with the help of examples such as loading all library functions offline in Excel and Power BI. Finally, the book will demonstrate the difference between M and DAX and show how results are produced in M. By the end of this book, you'll be ready to create impressive dashboards and multi-dimensional reports in Power Query and turn data into valuable insights. What you will learn

- Convert worksheet data into a table format ready for query output
- Create a dynamic connection between an Access database and Excel workbook
- Reshape tabular data by altering rows, columns, and tables using various Power Query tools
- Create new columns automatically from filenames and sheet tabs, along with multiple Excel data files
- Streamline and automate reports from multiple sources
- Explore different customization options to get the most out of your dashboards
- Understand the difference between the DAX language and Power Query's M language

Who this book is for

This Power Query book is for business analysts, data analysts, BI professionals, and Excel users looking to take their skills to the next level by learning how to collect, combine, and transform data into insights using Power Query. Working knowledge of Excel and experience in constructing and troubleshooting Excel formulas and functions is expected.

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

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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 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. Get more out of Microsoft Power BI turning your data into actionable 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 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 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 .Some experience with Power BI will be useful. What You Will Learn

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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 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 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 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, 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 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 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 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 examples.

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Know the intricate workings of DAX and the mechanics that are necessary to solve advanced Power BI challenges. This book is all about DAX (Data Analysis Expressions), the formula language used in Power BI, Microsoft's leading self-service business Intelligence application, and covers other products such as PowerPivot and SQL Server Analysis Services Tabular. You will learn how to leverage the advanced applications of DAX to solve complex tasks. Often a task seems complex due to a lack of understanding, or a misunderstanding of core principles, and how certain components interact with each other. The authors of this book use solutions and examples to teach you how to solve complex problems. They explain the intricate workings of important concepts such as Filter Context and Context Transition. Explanation is given to how, through combining building blocks of DAX (such as measures, table filtering, and data lineage), Power BI can yield impressive analytical power. Throughout Pro Dax with Power BI these building blocks are used to create and compose solutions for advanced DAX problems so you can independently build solutions to your own complex problems, and gain valuable insight from your data. What You'll Learn Understand the intricate workings of DAX to solve advanced problems Deconstruct problems into manageable parts in order to create your own recipes Apply predefined solutions for addressing problems, and link back step-by-step to the mechanics of DAX, to know the foundation of this powerful query language Get fully on board with DAX, a new and evolving language, by learning best practices Who This Book Is For Anyone who wants to use Power BI to build advanced and complex models. Some experience writing DAX is helpful, but not essential if you have experience with other data query languages such as MDX or SQL.

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media, website access codes, or print supplements that may come packaged with the bound book. 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 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://aka.ms/analyzingdata/details>. Learn more about Power BI at <https://powerbi.microsoft.com/>.

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