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# Beginning Power BI with Excel 2013

Self-Service Business Intelligence Using Power  
Pivot, Power View, Power Query, and Power Map

*MAKING SELF-SERVICE BI A REALITY*

Dan Clark

**apress®**

# Beginning Power Bi With Excel 2013 Self Service Business Intelligence Using Power Pivot Power View Power Query And Power Map

**Neil Dunlop**



## **Beginning Power BI With Excel 2013 Self Service Business Intelligence Using Power Pivot Power View Power Query And Power Map:**

**Beginning Power BI with Excel 2013** Dan Clark, 2014-10-09 Understanding your company's data has never been easier than with Microsoft's new Power BI package for Excel 2013. Consisting of four powerful tools: Power Pivot, Power View, Power Query, and Power Maps, Power BI makes self-service business intelligence a reality for a wide range of users, bridging the traditional gap between Excel users, business analysts, and IT experts, and making it easier for everyone to work together to build the data models that can give you game-changing insights into your business. *Beginning Power BI with Excel 2013* guides you step by step through the process of analyzing and visualizing your data. Daniel R. Clark, an expert in BI training and a regular speaker on these topics, takes you through each tool in turn, using hands-on activities to consolidate what you've learned in each chapter. Starting with Power Pivot, you will create robust, scalable data models which will serve as the foundation of your data analysis. Once you have mastered creating suitable data models, you will use them to build compelling, interactive visualizations in Power View. It's often necessary to combine data from disparate sources into a data model. Power Query allows you to easily discover, combine, and refine data from a variety of sources so you can make accurate judgments with all the available information. Geographical awareness is another common requirement of data analysis. Using Power Maps, you will create captivating visualizations that map your data in space and time. *Beginning Power BI with Excel 2013* is your practical guide to getting maximum insight from your data and presenting it with impact. *High Impact Data Visualization with Power View, Power Map, and Power BI* Adam Aspin, 2014-06-24 High Impact Data Visualization with Power View, Power Map, 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 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 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 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 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 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 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 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 delivers interactive insight Visually arresting output grabs and focuses attention on key indicators

**Microsoft Business Intelligence Tools for Excel Analysts** Michael Alexander, Jared Decker, Bernard Wehbe, 2014-04-17 Bridge the big data gap with Microsoft Business Intelligence Tools for Excel Analysts The distinction between departmental reporting done by business analysts with Excel and the enterprise reporting done by IT departments with SQL Server and SharePoint tools is more blurry now than ever before With the introduction of robust new features like PowerPivot and Power View it is essential for business analysts to get up to speed with big data tools that in the past have been reserved for IT professionals Written by a team of Business Intelligence experts Microsoft Business Intelligence Tools for Excel Analysts introduces business analysts to the rich toolset and reporting capabilities that can be leveraged to more effectively source and incorporate large datasets in their analytics while saving them time and simplifying the reporting process Walks you step by step through important BI tools like PowerPivot SQL Server and SharePoint and shows you how to move data back and forth between these tools and Excel Shows you how to leverage relational databases slice data into various views to gain different visibility perspectives create eye catching visualizations and dashboards automate SQL Server data retrieval and integration and publish dashboards and reports to the web Details how you can use SQL Server's built in functions to analyze large amounts of data Excel pivot tables to access and report OLAP data and PowerPivot to create powerful reporting mechanisms You'll get on top of the Microsoft BI stack and all it can do to enhance Excel data analysis with this one of a kind guide written for Excel analysts just like you

**Microsoft SQL Server 2014 Business Intelligence Development Beginner's Guide** Reza Rad, 2014-05-26 Written in an easy to follow example driven format there are plenty of stepbystep instructions to help get you started The book has a friendly approach with the opportunity to learn by experimenting If you are a BI and Data Warehouse developer new to Microsoft Business Intelligence and looking to get a good understanding of the different components of Microsoft SQL Server for Business Intelligence this book is for you It's assumed that you will have some experience in databases systems and T SQL This book will give you a good upshot view of each component and scenarios featuring the use of that component in Data Warehousing and Business Intelligence systems

**Beginning Big Data with Power BI and Excel 2013** Neil Dunlop, 2015-10-04 In Beginning Big Data with Power BI and Excel 2013 you will learn to solve business problems by tapping the power of Microsoft's Excel and Power BI to import data from NoSQL and SQL databases and other sources create relational data models and analyze business problems through sophisticated dashboards and data driven maps While Beginning Big Data with Power BI and Excel 2013 covers prominent tools such as Hadoop and the NoSQL databases it recognizes that most small and medium sized businesses don't have the Big Data processing needs of a Netflix Target or Facebook Instead it shows how to import data and use the self service analytics available in Excel with Power BI As you'll see through the book's numerous case examples these tools which you already know how to use can perform many of the same

functions as the higher end Apache tools many people believe are required to carry out in Big Data projects Through instruction insight advice and case studies Beginning Big Data with Power BI and Excel 2013 will show you how to Import and mash up data from web pages SQL and NoSQL databases the Azure Marketplace and other sources Tap into the analytical power of PivotTables and PivotCharts and develop relational data models to track trends and make predictions based on a wide range of data Understand basic statistics and use Excel with PowerBI to do sophisticated statistical analysis including identifying trends and correlations Use SQL within Excel to do sophisticated queries across multiple tables including NoSQL databases Create complex formulas to solve real world business problems using Data Analysis Expressions DAX

**Introducing Microsoft SQL Server 2014** Ross Mistry, Stacia Misner, 2014-04-15 NOTE This title is also available as a free eBook on the Microsoft Download Center It is offered for sale in print format as a convenience Get a head start evaluating SQL Server 2014 guided by two experts who have worked with the technology from the earliest beta Based on Community Technology Preview 2 CTP2 software this guide introduces new features and capabilities with practical insights on how SQL Server 2014 can meet the needs of your business Get the early high level overview you need to begin preparing your deployment now Coverage includes SQL Server 2014 Editions and engine enhancements Mission critical performance enhancements Hybrid cloud enhancements Self service Business Intelligence enhancements in Microsoft Excel Enterprise information management enhancements Big Data solutions

**Financial Modeling in Excel For Dummies** Danielle Stein Fairhurst, 2017-04-11 Make informed business decisions with the beginner's guide to financial modeling using Microsoft Excel Financial Modeling in Excel For Dummies is your comprehensive guide to learning how to create informative enlightening financial models today Not a math whiz or an Excel power user No problem All you need is a basic understanding of Excel to start building simple models with practical hands on exercises and before you know it you'll be modeling your way to optimized profits for your business in no time Excel is powerful user friendly and is most likely already installed on your computer which is why it has so readily become the most popular financial modeling software This book shows you how to harness Excel's capabilities to determine profitability develop budgetary projections model depreciation project costs value assets and more You'll learn the fundamental best practices and know how of financial modeling and how to put them to work for your business and your clients You'll learn the tools and techniques that bring insight out of the numbers and make better business decisions based on quantitative evidence You'll discover that financial modeling is an invaluable resource for your business and you'll wonder why you've waited this long to learn how Companies around the world use financial modeling for decision making to steer strategy and to develop solutions This book walks you through the process with clear expert guidance that assumes little prior knowledge Learn the six crucial rules to follow when building a successful financial model Discover how to review and edit an inherited financial model and align it with your business and financial strategy Solve client problems identify market projections and develop business strategies based on scenario

analysis Create valuable customized templates models that can become a source of competitive advantage From multinational corporations to the mom and pop corner store there isn't a business around that wouldn't benefit from financial modeling No need to buy expensive specialized software the tools you need are right there in Excel Financial Modeling in Excel For Dummies gets you up to speed quickly so you can start reaping the benefits today

**High Impact Data Visualization in Excel with Power View, 3D Maps, Get & Transform and Power BI** Adam Aspin, 2016-11-16 Take business intelligence delivery to a new level that is interactive engaging even fun all while driving commercial success through sound decision making Do this through the power of visualization using this updated edition covering new features and added support for visualization in Excel 2016 and describing the latest developments in Get Transform and DAX The example data set has also been updated to demonstrate all that Microsoft's self-service business intelligence suite is now capable of High Impact Data Visualization in Excel with Power View 3D Maps Get Transform and Power BI 2nd Edition helps in harnessing the power of 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 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 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 experience through polished interactivity Power Map is a similarly powerful mechanism for analyzing data across geographic and political units Get Transform lets you load shape and streamline data from multiple sources Power Pivot 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 in Excel with Power View 3D Maps Get Transform and Power BI 2nd Edition 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 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 delivers interactive insight Visually arresting output grabs and focuses attention on key indicators What You Will Learn Produce designer output that will astound your bosses and peers Drive business intelligence from Excel using BI in the Cloud Gather source data from corporate and public sources Integrate charts maps and tables to deliver visually stunning information Discover new insights as you chop and tweak your data as never before Adapt delivery to mobile devices Outshine competing products and enhance existing skills Who This Book Is For Any Power BI Desktop Excel or SharePoint user Business Intelligence developers power users IT managers finance experts and more can use this book to outshine the competition by producing high impact business intelligence reporting on a variety of devices from a variety of sources

**MICROSOFT SQL SERVER. ENHANCEMENTS, BUSINESS INTELLIGENCE AND**

**BIG DATA** CESAR PEREZ LOPEZ, SQL Server takes advantage of the new capabilities of Windows Server 2012 Windows Server 2012 R2 and Windows Server 2016 to provide unparalleled scalability for database applications on a physical or virtual environment SQL Server also incorporates new capabilities on big data and business intelligence that will be developed throughout this book

**SharePoint Kompendium - Bd. 10: Office-365-Applikationen** Mirko Schrempp, 2015-06-29 Office 365 erlaubt durch seine Anwendungsschnittstellen und das Zusammenspiel mit Azure das relative leichtgewichtige Erstellen von Apps und Integrationen von Drittanbieterlösungen Die Artikel zeigen zahlreiche Möglichkeiten auf die dieses Zusammenspiel von SharePoint in Office 365 ermöglichen Von der Einbindung anderer Cloud Dienste über die Verzahnung mit anderen Office 365 Diensten bis hin zum Kunden Der Fokus dieser Möglichkeiten liegt dabei auf SharePoint Online doch lassen sich auch On Premise Anbindungen errichten um z B bergreifende Workflows und ein sicheres Rechte management sowie umfassende Suchszenarien zu erstellen Zusammen mit der ebenfalls vorgestellten nächsten Portalgeneration für SharePoint werden in diesem Band so nahtlose berg nge und Zusammenarbeitsmodelle vorgestellt und beschrieben die von kleinen Teams bis zum Level von Großunternehmen zeitgemäße Erwartungen abdecken können

**Power BI Data Modeling** Nisal Mihiranga, 2022-03-22 Build Power BI Models Efficiently and Effectively KEY FEATURES Extensive examples illustrating Power BI and data modeling concepts Includes graphical 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 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 users To begin you will learn about the Microsoft Power BI ecosystem by downloading the Power BI desktop and exploring all of its features and capabilities Through examples you will learn how to connect to databases of 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 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 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 will see that several new topics have been 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 data models aggregate data and create hierarchies Practice DAX language write calculations and execute them Utilize advanced features including AI visualizations and performance analyzer 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 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 sufficient

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**SharePoint 2013 Field Guide** Errin O'Connor, 2014-05-27 Covers SharePoint 2013 Office 365 s SharePoint Online and Other Office 365 Components In SharePoint 2013 Field Guide top consultant Errin O Connor and the team from EPC Group bring together best practices and proven strategies drawn from hundreds of successful SharePoint and Office 365 engagements Reflecting this unsurpassed experience they guide you through deployments of every type including the latest considerations around private public and hybrid cloud implementations from ECM to business intelligence BI as well as custom development and identity management O Connor reveals how world class consultants approach plan implement and deploy SharePoint 2013 and Office 365 s SharePoint Online to maximize both short and long term value He covers every phase and element of the process including initial whiteboarding consideration around the existing infrastructure IT roadmaps and the information architecture IA and planning for security and compliance in the new IT landscape of the hybrid cloud SharePoint 2013 Field Guide will be invaluable for implementation team members ranging from solution architects to support professionals CIOs to end users It s like having a team of senior level SharePoint and Office 365 hybrid architecture consultants by your side helping you optimize your success from start to finish Detailed Information on How to Develop a 24 36 month roadmap reflecting initial requirements longterm strategies and key unknowns for organizations from 100 users to 100 000 users Establish governance that reduces risk and increases value covering the system as well as information architecture components security compliance OneDrive SharePoint 2013 Office 365 SharePoint Online Microsoft Azure Amazon Web Services and identity management Address unique considerations of large global and or multilingual enterprises Plan for the hybrid cloud private public hybrid SaaS PaaS IaaS Integrate SharePoint with external data sources from Oracle and SQL Server to HR ERP or document management for business intelligence initiatives Optimize performance across multiple data centers or locations including US and EU compliance and regulatory considerations PHI PII HIPAA Safe Harbor etc Plan for disaster recovery business continuity data replication and archiving Enforce security via identity management and authentication Safely support mobile devices and apps including BYOD Implement true records management ECM RM to support legal compliance requirements Efficiently build custom applications workflows apps and web parts Leverage



Microsoft Azure or Amazon Web Services AWS      *Beginning Power BI* Dan Clark, 2017-02-28 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 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 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 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 dashboards and reports Who This Book Is For Business analysts database administrators developers and other professionals looking to better understand and communicate with data      *Business Intelligence in Microsoft SharePoint 2013* Norm Warren, Mariano Neto, Stacia Misner, Ivan Sanders, Scott A. Helmers, 2013-05-15 Dive into the business intelligence features in SharePoint 2013 and use the right combination of tools to deliver compelling solutions Take control of business intelligence BI with the tools offered by SharePoint 2013 and Microsoft SQL Server 2012 Led by a group of BI and SharePoint experts you'll get step by step instructions for understanding how to use these technologies best in specific BI scenarios whether you're a SharePoint administrator SQL Server developer or business analyst Discover how to Manage the entire BI lifecycle from determining key performance indicators to building dashboards Use web based Microsoft Excel services and publish workbooks on a SharePoint Server Mash up data from multiple sources and create Data Analysis Expressions DAX using PowerPivot Create data driven diagrams that provide interactive processes and context with Microsoft Visio Services Use dashboards scorecards reports and key performance indicators to monitor and analyze your business Use SharePoint to view BI reports side by side no matter which tools were used to produce them      **DATA ANALYSIS DENGAN EXCEL**

**Pemrosesan Data Tabular dengan Power Query** Wahyu Sulistio, S.Kom., M.T.I, Power Query sebenarnya sudah ada sejak Excel 2010 dan menjadi bagian yang terintegrasi untuk melakukan Import Data sejak Excel 2016 Power Query hadir dengan membawa alternatif solusi atas beberapa permasalahan dalam pemrosesan data dengan menggunakan worksheet Excel khususnya terkait penyiapan data seperti batasan jumlah record data asli yang rawan berubah langkah langkah yang harus dilakukan berulang secara manual dan sebagainya      *Business Intelligence mit Excel* Ignatz Schels, 2023-12-08

*Beginning Big Data with Power BI and Excel 2013* Neil Dunlop, 2015 In *Beginning Big Data with Power BI and Excel 2013* you will learn to solve business problems by tapping the power of Microsoft's Excel and Power BI to import data from NoSQL and SQL databases and other sources create relational data models and analyze business problems through sophisticated dashboards and data driven maps While *Beginning Big Data with Power BI and Excel 2013* covers prominent tools such as Hadoop and the NoSQL databases it recognizes that most small and medium sized businesses don't have the Big Data

processing needs of a Netflix Target or Facebook Instead it shows how to import data and use the self service analytics available in Excel with Power BI As you ll see through the book s numerous case examples these tools which you already know how to use can perform many of the same functions as the higher end Apache tools many people believe are required to carry out in Big Data projects Through instruction insight advice and case studies Beginning Big Data with Power BI and Excel 2013 will show you how to Import and mash up data from web pages SQL and NoSQL databases the Azure Marketplace and other sources Tap into the analytical power of PivotTables and PivotCharts and develop relational data models to track trends and make predictions based on a wide range of data Understand basic statistics and use Excel with PowerBI to do sophisticated statistical analysis including identifying trends and correlations Use SQL within Excel to do sophisticated queries across multiple tables including NoSQL databases Create complex formulas to solve real world business problems using Data Analysis Expressions DAX **Microsoft Power BI: Ein Überblick** Jörg Knuth,2014 Beginning Microsoft Power BI Dan Clark,2020-02-21 Analyze company data quickly and easily using Microsoft s powerful data tools Learn to build scalable and robust data models clean and combine different data sources effectively and create compelling and professional visuals Beginning Power BI is a hands on activity based guide that takes you through the process of analyzing your data using the tools that that encompass the core of Microsoft s self service BI offering Starting with Power Query you will learn how to get data from a variety of sources and see just how easy it is to clean and shape the data prior to importing it into a data model Using Power BI tabular and the Data Analysis Expressions DAX you will learn to create robust scalable data models which will serve as the foundation of your data analysis From there you will enter the world of compelling interactive visualizations to analyze and gain insight into your data You will wrap up your Power BI journey by learning how to package and share your reports and dashboards 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 with the tools This third edition covers the new and evolving features in the Power BI platform and new chapters on data flows and composite models This book is your hands on guide to quick reliable and valuable data insight What You Will 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 dashboards and reports Who This Book Is For Business analysts database administrators developers and other professionals looking to better understand and communicate with data Excel Power Pivot und Power Query für Dummies Michael Alexander,2023-04-24 Wie Sie mit Microsoft Power Pivot und Power Query gro e Datenmengen in Excel zusammenf hren untersuchen und weiterf hrende Erkenntnisse daraus gewinnen zeigt Ihnen dieses Buch Angefangen bei der Anbindung an Datenbanken bis hin zur Verwendung eigener Formeln und Funktionen Sie erfahren wie Sie Daten aus verschiedenen Datenquellen in einem einheitlichen Datenmodell verarbeiten interpretieren und bersichtlich in Berichten darstellen Schritt f r Schritt Anleitungen und wertvolle Praxistipps unterst tzen Sie dabei Analysen

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