Microsoft

Microsoft Excel 2013

Building Data Models with PowerPivot
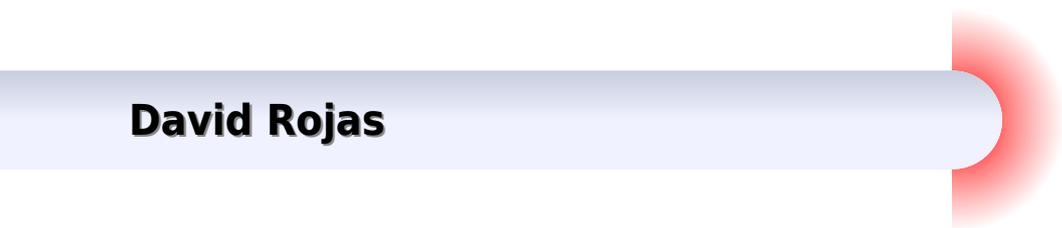
Alberto Ferrari and Marco Russo

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Microsoft Excel 2013 Building Data Models With Powerpivot Business Skills

David Rojas

Microsoft Excel 2013 Building Data Models With Powerpivot Business Skills:

Microsoft Excel 2013 Building Data Models with PowerPivot Alberto Ferrari,Marco Russo,2013-03-15 Your guide to quickly turn data into results Transform your skills data and business and create your own BI solutions using software you already know and love Microsoft Excel Two business intelligence BI experts take you inside PowerPivot functionality for Excel 2013 with a focus on real world scenarios problem solving and data modeling You ll learn how to quickly turn mass quantities of data into meaningful information and on the job results no programming required Understand the differences between PowerPivot for Self Service BI and SQL Server Analysis Services for Corporate BI Extend your existing data analysis skills to create your own BI solutions Quickly manipulate large data sets often in millions of rows Perform simple to sophisticated calculations and what if analysis Create complex reporting systems with data modeling and Data Analysis Expressions Share your results effortlessly across your organization using Microsoft SharePoint Authors note on using Microsoft Excel 2016 This book s content was written against Excel 2013 but it is useful and valid for users of Excel 2016 too Excel 2016 introduces several new DAX functions and an improved editor for DAX without changing any existing behavior In other words all of the concepts and examples explained in this book continue to work with Excel 2016 **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 produced them **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 **Exam Ref 70-779 Analyzing and Visualizing Data with Microsoft Excel** Chris Sorensen,2018-06-07 Prepare for Microsoft Exam 70 779 and help demonstrate your real world mastery of Microsoft Excel data analysis and visualization Designed for BI professionals data analysts and others who analyze business data with Excel this 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 Microsoft Excel Model data from building and optimizing data models through creating performance KPIs actual and target calculations and hierarchies Visualize data including creating and managing PivotTables and PivotCharts and interacting with PowerBI This Microsoft Exam Ref Organizes its coverage by exam objectives Features strategic what if scenarios to challenge you Assumes you have a strong understanding of how to use Microsoft Excel to perform data analysis

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 **Analyzing Data with**

Power BI and Power Pivot for Excel Alberto Ferrari,Marco Russo,2017-04-28 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 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   Data Analysis and Business Modeling with Excel 2013 David Rojas,2015-10-22 Manage analyze and visualize data with Microsoft Excel 2013 to transform raw data into ready to use informationAbout This Book Create formulas to help you analyze and explain findings Develop interactive spreadsheets that will impress your audience and give them the ability to slice and dice data A step by step guide to learn various ways to model data for businesses with the help of Excel 2013Who This Book Is ForIf you want to start using Excel 2013 for data analysis and business modeling and enhance your skills in the data analysis life cycle then this book is for you whether you re new to Excel or experienced What You Will Learn Discover what Excel formulas are all about and how to use them in your spreadsheet development Identify bad data and learn cleaning strategies Create interactive spreadsheets that engage and appeal to your audience Leverage Excel s powerful built in tools to get the median maximum and minimum values of your data Build impressive tables and combine datasets using Excel s built in functionality Learn the powerful scripting language VBA allowing you to implement your own custom solutions with easeIn DetailExcel 2013 is one of the easiest to use data analysis tools you will ever come across Its simplicity and powerful features has made it the go to tool for all your data needs Complex operations with Excel such as creating charts and graphs visualization and analyzing data make it a great tool for managers data scientists financial data analysts and those who work closely with data Learning data analysis and will help you bring your data skills to the next level This book starts by walking you through creating your own data and bringing data into Excel from various sources You ll learn the basics of SQL syntax

and how to connect it to a Microsoft SQL Server Database using Excel s data connection tools You will discover how to spot bad data and strategies to clean that data to make it useful to you Next you ll learn to create custom columns identify key metrics and make decisions based on business rules You ll create macros using VBA and use Excel 2013 s shiny new macros Finally at the end of the book you ll be provided with useful shortcuts and tips enabling you to do efficient data analysis and business modeling with Excel 2013 Style and approachThis is a step by step guide to performing data analysis and business modelling with Excel 2013 complete with examples and tips   Excel 2013 Pivot Table Data Crunching Bill Jelen,Michael Alexander,2013-03-18 PivotTables may be Excel s most powerful feature but Microsoft has estimated that only 15% of Excel users take advantage of them That s because PivotTables and their companion feature PivotCharts have a reputation for being difficult to learn Not any more In this expert tutorial Excel legends Bill Jelen MrExcel and Michael Alexander teach PivotTables and PivotCharts step by step using realistic business scenarios that any Excel user can intuitively understand Jelen and Alexander go far beyond merely explaining PivotTables and PivotCharts they present practical recipes for solving a wide range of business problems Drawing on more than 35 combined years of Excel experience they provide tips and tricks readers won t find anywhere else and show exactly how to sidestep common mistakes Coverage includes Creating PivotTables customizing them and changing the way you view them Performing calculations within PivotTables Using PivotCharts and other visualizations Analyzing multiple data sources with PivotTables Sharing PivotTables with others Working with and analyzing OLAP data Making the most of Excel 2013 s powerful new PowerPivot feature Using Excel 2013 s Slicer to dynamically filter PivotTables Enhancing PivotTables with macros and VBA code This book is part of the popular MrExcel s Library series edited by Bill Jelen world renowned Excel expert and host of the world renowned Excel help site MrExcel com   **Data Modeling with Microsoft Excel** Bernard Obeng Boateng,2023-11-30 Save time analyzing volumes of data using a structured method to extract model and create insights from your data Key Features Acquire expertise in using Excel s Data Model and Power Pivot to connect and analyze multiple sources of data Create key performance indicators for decision making using DAX and Cube functions Apply your knowledge of Data Model to build an interactive dashboard that delivers key insights to your users Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionMicrosoft Excel s BI solutions have evolved offering users more flexibility and control over analyzing data directly in Excel Features like PivotTables Data Model Power Query and Power Pivot empower Excel users to efficiently get transform model aggregate and visualize data Data Modeling with Microsoft Excel offers a practical way to demystify the use and application of these tools using real world examples and simple illustrations This book will introduce you to the world of data modeling in Excel as well as definitions and best practices in data structuring for both normalized and denormalized data The next set of chapters will take you through the useful features of Data Model and Power Pivot helping you get to grips with the types of schemas snowflake and star and create relationships within multiple tables You ll also understand how to create

powerful and flexible measures using DAX and Cube functions By the end of this book you ll be able to apply the acquired knowledge in real world scenarios and build an interactive dashboard that will help you make important decisions What you will learn Implement the concept of data modeling within and beyond Excel Get transform model aggregate and visualize data with Power Query Understand best practices for data structuring in MS Excel Build powerful measures using DAX from the Data Model Generate flexible calculations using Cube functions Design engaging dashboards for your users Who this book is for This book is for Excel users looking for hands on and effective methods to manage and analyze large volumes of data within Microsoft Excel using Power Pivot Whether you re new or already familiar with Excel s data analytics tools this book will give you further insights on how you can apply Power Pivot Data Model DAX measures and Cube functions to save time on routine data management tasks An understanding of Excel s features like tables PivotTable and some basic aggregating functions will be helpful but not necessary to make the most of this book   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 Excel 365 Data Analysis Masterclass** Liam P. Swift, Unlock the Power of Your Data Become an Excel 365 Analysis Master Are you ready to transform your Excel skills and become a data analysis powerhouse In Microsoft Excel 365 Data Analysis Masterclass A Practical Guide to Power Query Power Pivot DAX and Data Visualization expert P Swift provides a comprehensive hands on approach that will take you from Excel novice to advanced data analysis pro This isn t just another dry textbook it s your practical guide to mastering the core tools and techniques that will help you make sense of your data and drive real results From Basic to Advanced Your Journey to Excel Mastery Have you been struggling with basic

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Tables to quickly create customized tables to summarize large datasets Targeted for Every Excel User This book is designed to be useful for everyone from the Excel novice to the experienced data professional You will learn the essentials of data analysis as well as more advanced techniques that can help you take your skills to the next level Whether you want to streamline your reporting process make better business decisions or simply improve your overall Excel skillset this book will help you achieve your goals If you are working in Excel for Financial Analysis you will find the real world applications in this book to be incredibly useful If you are looking for ways to use Advanced Data Analysis Techniques in Excel or want to get more out of Excel Data Analysis with Power Query and Power Pivot then this is the right book for you Ready to Take Your Excel Skills to the Next Level Stop struggling with spreadsheets and start unlocking the true potential of your data Liam P Swift s Microsoft Excel 365 Data Analysis Masterclass is your proven path to Excel mastery Don t wait any longer Click the Buy Now button and start transforming your data analysis skills today   <u>Using Excel for Business Analysis</u> Danielle Stein Fairhurst,2015-05-18 This is a guide to building financial models for business proposals to evaluate opportunities or to craft financial reports It covers the principles and best practices of financial modelling including the Excel tools formulas and functions to master and the techniques and strategies necessary to eliminate errors   *Power Pivot and Power BI* MrExcel's Holy Macro! Books,Rob Collie,Avichal Singh,2024-09-26 Unlock the power of data analysis with Power Pivot and Power BI Master the techniques and tools to transform your data into insightful reports dashboards and models Key Features Step by step guide to mastering Power Pivot and Power BI Practical examples and real world applications Foundational to advanced techniques for effective data analysis Book DescriptionMaster Power Pivot and Power BI with this comprehensive guide designed to elevate your data analysis and business intelligence skills Starting with the essentials of Power Pivot you ll learn how to load and transform data create calculated columns and apply foundational DAX functions As you advance the book dives into more complex topics like working with multiple tables understanding relationships and mastering advanced DAX functions such as CALCULATE and FILTER You ll also explore the powerful capabilities of Power BI Desktop and learn how to turn your data into compelling visualizations that drive impactful business decisions With a focus on practical application the guide includes real world examples and exercises to reinforce each concept By the end of this guide you ll have the skills to build sophisticated data models optimize performance and create dynamic reports and dashboards that effectively communicate insights This guide is perfect for professionals aiming to harness the full power of Excel and Power BI in their data driven decision making processes What you will learn Understand the Power Pivot and Power BI ecosystem Load and prepare data effectively Build and manage calculated columns Master DAX measures and functions Optimize data model performance Leverage Power BI Desktop and advanced features Who this book is for Ideal for data professionals Excel users and business analysts this book assumes a basic understanding of Excel but no prior knowledge of Power Pivot or Power BI It is suitable for anyone looking to enhance their data analysis and reporting skills using these tools   *Excel Power Pivot &*

Power Query For Dummies Michael Alexander,2016-03-18 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 **Microsoft Business Intelligence Tools for Excel Analysts** Michael Alexander,Jared Decker,Bernard Wehbe,2014-05-05 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 **Learn Excel 2013 Expert Skills with the Smart Method** Mike Smart,2014-04 This book is very very different to any other computer book you have ever read The Smart Method provides an entirely new and better way to learn Excel You ll immediately

appreciate the value and relevance of each skill as it is taught Both IT professionals and absolute beginners will love this book because it avoids needless technical jargon and concisely explains everything you need in a simple and no nonsense way Amongst other things you ll learn how to Use Excel 2013 s new data model feature to create table relationships Master dynamic tables and structured table references Completely understand Excel 2013 s new ability to create OLAP cubes Use Excel 2013 s new OLAP Pivot Tables to present OLAP cube data Perform What If analysis to model and compare business scenarios Record macros and then execute them from button controls Create intuitive user interfaces using form controls Enforce complex business rules using function driven custom validations Use advanced functions to solve real world business problems Understand and use all of Excel s security features Use Excel 2013 s new timeline slicers to quickly filter date ranges Create and use dynamic and table based range names **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 andcase 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 **Extreme DAX** Michiel Rozema,Henk Vlootman,2022-01-20 Discover the true power of DAX and build advanced DAX solutions for practical business scenarios Key FeaturesSolve complex business problems within Microsoft BI tools including Power BI SQL Server and ExcelDevelop a conceptual understanding of critical business data modeling principlesLearn the subtleties of Power BI data visualizations evaluation context context transition and filteringBook Description This book helps business analysts generate powerful and sophisticated analyses from their data using DAX and get the most out of Microsoft Business Intelligence tools Extreme DAX will first teach you the principles of business intelligence good model design and how DAX fits into it all Then you ll launch into detailed examples of DAX in real world business scenarios such as inventory calculations

forecasting intercompany business and data security At each step senior DAX experts will walk you through the subtleties involved in working with Power BI models and common mistakes to look out for as you build advanced data aggregations You ll deepen your understanding of DAX functions filters and measures and how and when they can be used to derive effective insights You ll also be provided with PBIX files for each chapter so that you can follow along and explore in your own time What you will learnUnderstand data modeling concepts and structures before you start working with DAXGrasp how relationships in Power BI models are different from those in RDBMSesSecure aggregation levels attributes and hierarchies using PATH functions and row level securityGet to grips with the crucial concept of contextApply advanced context and filtering functions including TREATAS GENERATE and SUMMARIZEExplore dynamically changing visualizations with helper tables and dynamic labels and axesWork with week based calendars and understand standard time intelligenceEvaluate investments intelligently with the XNPV and XIRR financial DAX functionsWho this book is for Extreme DAX is written for analysts with a working knowledge of DAX in Power BI or other Microsoft analytics tools It will help you upgrade your knowledge and work with analytical models more effectively so you ll need practical experience with DAX before you can get started **Microsoft Excel 2013 Data Analysis and Business Modeling** Wayne Winston,2014-01-15 Master business modeling and analysis techniques with Microsoft Excel 2013 and transform data into bottom line results Written by award winning educator Wayne Winston this hands on scenario focused guide shows you how to use the latest Excel tools to integrate data from multiple tables and how to effectively build a relational data source inside an Excel workbook Solve real business problems with Excel and sharpen your edge Summarize data with PivotTables and Descriptive Statistics Explore new trends in predictive and prescriptive analytics Use Excel Trend Curves multiple regression and exponential smoothing Master advanced Excel functions such as OFFSET and INDIRECT Delve into key financial statistical and time functions Make your charts more effective with the Power View tool Tame complex optimization problems with Excel Solver Run Monte Carlo simulations on stock prices and bidding models Apply important modeling tools such as the Inquire add in

Dashboarding and Reporting with Power Pivot and Excel Kasper de Jonge,2014-07-01 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

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