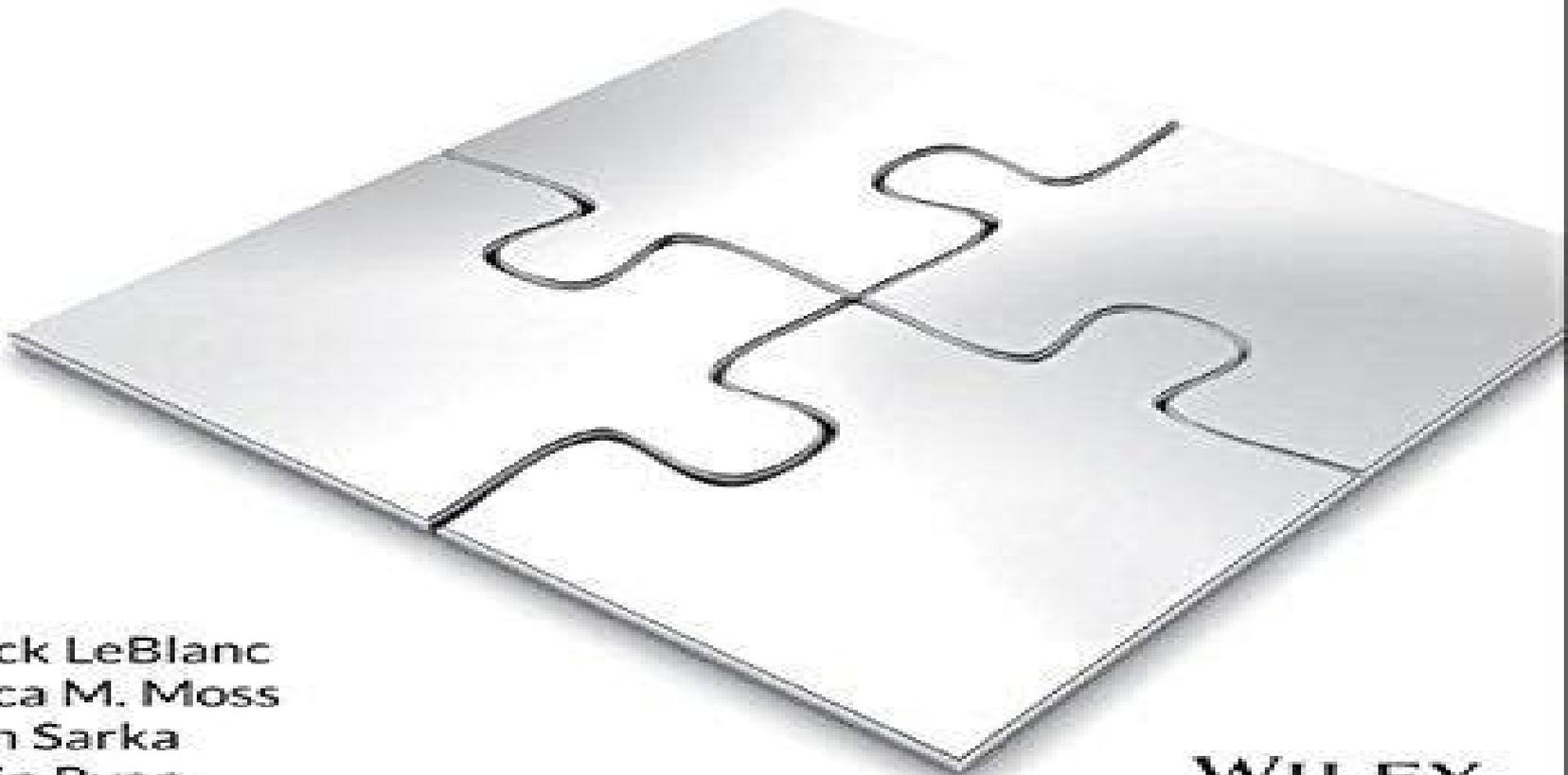


# Applied Microsoft® Business Intelligence



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# Applied Microsoft Business Intelligence

**Teo Lachev**



## **Applied Microsoft Business Intelligence:**

*Applied Microsoft Power BI (4th Edition): Bring Your Data to Life!* Teo Lachev, 2019 Written by a Microsoft MVP and revised annually this insightful guide introduces Microsoft Power BI a cloud hosted business intelligence and analytics platform that democratizes and opens BI to everyone Information workers will learn how to connect to popular cloud services to derive instant insights create interactive reports and dashboards and view them in the browser and on the go Data analysts will discover how to integrate and transform data from virtually everywhere and then implement sophisticated self service models The book teaches BI and IT pros how to establish a trustworthy environment that promotes collaboration and how to implement Power BI centric solutions for descriptive real time and predictive analytics Developers will find how to integrate custom applications with Power BI embed reports and implement custom visuals to present effectively any data Ideal for both experienced BI practitioners or beginners this book doesn't assume any prior data analytics experience It's designed as an easy to follow guide that introduces new concepts with step by step instructions and hands on demos The book page at prologika.com applied microsoft power bi provides sample chapters source code and discussion forum What's Inside Power BI for Information Workers Get instant insights from cloud services and files Explore data with interactive reports Assemble dashboards with a few clicks Access BI content on mobile devices Power BI for Data Analysts Import data from virtually anywhere Cleanse transform and shape data Create sophisticated data models Implement business calculations Get insights from data Apply machine learning Power BI for Pros Enable sharing and collaboration Deploy to cloud and on premises Implement organizational BI solutions Power BI for Developers Automate Power BI Report enable custom applications Build custom visuals and much more

**Applied Microsoft Business Intelligence** Patrick LeBlanc, Jessica M. Moss, Dejan Sarka, Dustin Ryan, 2015-05-06 Leverage the integration of SQL Server and Office for more effective BI Applied Microsoft Business Intelligence shows you how to leverage the complete set of Microsoft tools including Microsoft Office and SQL Server to better analyze business data This book provides best practices for building complete BI solutions using the full Microsoft toolset You will learn how to effectively use SQL Server Analysis and Reporting Services along with Excel SharePoint and other tools to provide effective and cohesive solutions for the enterprise Coverage includes BI architecture data queries semantic models multidimensional modeling data analysis and visualization performance monitoring data mining and more to help you learn to perform practical business analysis and reporting Written by an author team that includes a key member of the BI product team at Microsoft this useful reference provides expert instruction for more effective use of the Microsoft BI toolset Use Microsoft BI suite cohesively for more effective enterprise solutions Search analyze and visualize data more efficiently and completely Develop flexible and scalable tabular and multidimensional models Monitor performance build a BI portal and deploy and manage the BI Solution

*Applied Microsoft Power BI* Teo Lachev, 2015-12-17 An insightful tour that provides an authoritative yet independent view of this exciting technology this

guide introduces Microsoft Power BI a cloud hosted business intelligence and analytics platform that democratizes and opens BI to everyone Information workers will learn how to connect to popular cloud services to derive instant insights create interactive reports and dashboards and view them in the browser and on the go Data analysts will discover how to integrate and transform data from virtually everywhere and then implement sophisticated self service models The book teaches BI and IT pros how to establish a trustworthy environment that promotes collaboration and how to implement Power BI centric solutions for descriptive real time and predictive analytics Developers will find how to integrate custom applications with Power BI embed reports and implement custom visuals to present effectively any data Ideal for both experienced BI practitioners or beginners this book doesn t assume any prior data analytics experience It s designed as an easy to follow guide that introduces new concepts with step by step instructions and hands on demos What s Inside Power BI for Information Workers Get instant insights from cloud services and files Explore data with a few clicks Access BI content on mobile devices Power BI for Data Analysts Import data from virtually anywhere Cleanse transform and shape data Create sophisticated data models Implement business calculations Power BI for Pros Enable sharing and collaboration Implement organizational BI solutions Power BI for Developers Implement Power BI centric solutions Report enable custom applications Build custom visuals and much more The book website at [www.prologika.com](http://www.prologika.com) provides sample chapters source code and discussion forum

**APPLIED MS POWER BI (2ND EDITI** Teo Lachev, 2017-01-15 An insightful tour that provides an authoritative yet independent view of this exciting technology this guide introduces Microsoft Power BI a cloud hosted business intelligence and analytics platform that democratizes and opens BI to everyone Information workers will learn how to connect to popular cloud services to derive instant insights create interactive reports and dashboards and view them in the browser and on the go Data analysts will discover how to integrate and transform data from virtually everywhere and then implement sophisticated self service models The book teaches BI and IT pros how to establish a trustworthy environment that promotes collaboration and how to implement Power BI centric solutions for descriptive real time and predictive analytics Developers will find how to integrate custom applications with Power BI embed reports and implement custom visuals to present effectively any data Ideal for both experienced BI practitioners or beginners this book doesn t assume any prior data analytics experience It s designed as an easy to follow guide that introduces new concepts with step by step instructions and hands on demos What s Inside Power BI for Information Workers Get instant insights from cloud services and files Explore data with interactive reports Assemble dashboards with a few clicks Access BI content on mobile devices Power BI for Data Analysts Import data from virtually anywhere Cleanse transform and shape data Create sophisticated data models Implement business calculations Power BI for Pros Enable sharing and collaboration Implement organizational BI solutions Power BI for Developers Implement Power BI centric solutions Report enable custom applications Build custom visuals and much more The book website at <http://www.prologika.com> provides sample chapters source code and discussion forum *Applied Microsoft*

*Analysis Services 2005* Teo Lachev, 2005 Knowledge is power As its name suggests the promise of Microsoft SQL Server Analysis Services 2005 is to promote better data analytics by giving information workers the right tool to analyze consistent timely and reliable data Empowered with Analysis Services and Microsoft Business Intelligence Platform you are well positioned to solve the perennial problem with data that there is too much of it and finding the right information is often difficult if not impossible Applied Microsoft Analysis Services 2005 shows database administrators and developers how to build complete OLAP solutions with Microsoft Analysis Services 2005 and Microsoft Business Intelligence Platform Database administrators will learn how to design and manage sophisticated OLAP cubes that provide rich data analytics and data mining services The book gives developers the necessary background to extend UDM with custom programming logic in the form of MDX expressions scripts and NET code It teaches them how to implement a wide range of reporting applications that integrate with Analysis Services Reporting Services and Microsoft Office This book doesn't assume any prior experience with OLAP and Microsoft Analysis Services It is designed as an easy to follow guide where each chapter builds upon the previous to implement the components of the innovative Unified Dimensional Model UDM in a chronological order New concepts are introduced with step by step instructions and hands on demos What's Inside o Design sophisticated UDM models o Build ETL processes with SSIS o Implement data mining tasks o Enrich UDM programmatically with MDX o Extend UDM with SSAS stored procedures o Create rich end user model o Optimize Analysis Services storage and processing o Implement dynamic security o Build custom OLAP clients o Author standard and ad hoc reports with SSRS o Build Office based BI applications and dashboards o and much more

[Applied Microsoft Power BI \(3rd Edition\): Bring Your Data to Life!](#) Teo Lachev, 2018 An insightful tour that provides an authoritative yet independent view of this exciting technology this guide introduces Microsoft Power BI a cloud hosted business intelligence and analytics platform that democratizes and opens BI to everyone Information workers will learn how to connect to popular cloud services to derive instant insights create interactive reports and dashboards and view them in the browser and on the go Data analysts will discover how to integrate and transform data from virtually everywhere and then implement sophisticated self service models The book teaches BI and IT pros how to establish a trustworthy environment that promotes collaboration and how to implement Power BI centric solutions for descriptive real time and predictive analytics Developers will find how to integrate custom applications with Power BI embed reports and implement custom visuals to present effectively any data Ideal for both experienced BI practitioners or beginners this book doesn't assume any prior data analytics experience It's designed as an easy to follow guide that introduces new concepts with step by step instructions and hands on demos What's Inside Power BI for Information Workers Get instant insights from cloud services and files Explore data with interactive reports Assemble dashboards with a few clicks Access BI content on mobile devices Power BI for Data Analysts Import data from virtually anywhere Cleanse transform and shape data Create sophisticated data models Implement business calculations Get insights from data Power BI for Pros Enable sharing and

collaboration Deploy to cloud and on premises Implement organizational BI solutions Power BI for Developers Automate Power BI Report enable custom applications Build custom visuals and much more The book website at [prologika.com](http://prologika.com) provides sample chapters source code and discussion forum

*Microsoft Power BI Complete Reference* Devin Knight, Brian Knight, Mitchell Pearson, Manuel Quintana, Brett Powell, 2018-12-21 Design develop and master efficient Power BI solutions for impactful business insights Key Features Get to grips with the fundamentals of Microsoft Power BI Combine data from multiple sources create visuals and publish reports across platforms Understand Power BI concepts with real world use cases Book Description *Microsoft Power BI Complete Reference Guide* gets you started with business intelligence by showing you how to install the Power BI toolset design effective data models and build basic dashboards and visualizations that make your data come to life In this Learning Path you will learn to create powerful interactive reports by visualizing your data and learn visualization styles tips and tricks to bring your data to life You will be able to administer your organization's Power BI environment to create and share dashboards You will also be able to streamline deployment by implementing security and regular data refreshes Next you will delve deeper into the nuances of Power BI and handling projects You will get acquainted with planning a Power BI project development and distribution of content and deployment You will learn to connect and extract data from various sources to create robust datasets reports and dashboards Additionally you will learn how to format reports and apply custom visuals animation and analytics to further refine your data By the end of this Learning Path you will learn to implement the various Power BI tools such as on premises gateway together along with staging and securely distributing content via apps This Learning Path includes content from the following Packt products *Microsoft Power BI Quick Start Guide* by Devin Knight et al *Mastering Microsoft Power BI* by Brett Powell What you will learn Connect to data sources using both import and DirectQuery options Leverage built in and custom visuals to design effective reports Administer a Power BI cloud tenant for your organization Deploy your Power BI Desktop files into the Power BI Report Server Build efficient data retrieval and transformation processes Who this book is for *Microsoft Power BI Complete Reference Guide* is for those who want to learn and use the Power BI features to extract maximum information and make intelligent decisions that boost their business If you have a basic understanding of BI concepts and want to learn how to apply them using Microsoft Power BI then Learning Path is for you It consists of real world examples on Power BI and goes deep into the technical issues covers additional protocols and much more

**Mastering Microsoft Power BI** Greg Deckler, Brett Powell, Leon Gordon, 2022-06-30 Plan design develop and manage robust Power BI solutions to generate meaningful insights and make data driven decisions Purchase of the print or Kindle book includes a free eBook in the PDF format Key Features Master the latest dashboarding and reporting features of Microsoft Power BI Combine data from multiple sources create stunning visualizations and publish Power BI apps to thousands of users Get the most out of Microsoft Power BI with real world use cases and examples Book Description *Mastering Microsoft Power BI Second Edition* provides an advanced understanding of

Power BI to get the most out of your data and maximize business intelligence This updated edition walks through each essential phase and component of Power BI and explores the latest most impactful Power BI features Using best practices and working code examples you will connect to data sources shape and enhance source data and develop analytical data models You will also learn how to apply custom visuals implement new DAX commands and paginated SSRS style reports manage application workspaces and metadata and understand how content can be staged and securely distributed via Power BI apps Furthermore you will explore top report and interactive dashboard design practices using features such as bookmarks and the Power KPI visual alongside the latest capabilities of Power BI mobile applications and self service BI techniques Additionally important management and administration topics are covered including application lifecycle management via Power BI pipelines the on premises data gateway and Power BI Premium capacity By the end of this Power BI book you will be confident in creating sustainable and impactful charts tables reports and dashboards with any kind of data using Microsoft Power BI What you will learn Build efficient data retrieval and transformation processes with the Power Query M language and dataflows Design scalable user friendly DirectQuery import and composite data models Create basic and advanced DAX measures Add ArcGIS Maps to create interesting data stories Build pixel perfect paginated reports Discover the capabilities of Power BI mobile applications Manage and monitor a Power BI environment as a Power BI administrator Scale up a Power BI solution for an enterprise via Power BI Premium capacity Who this book is for Business Intelligence professionals and intermediate Power BI users looking to master Power BI for all their data visualization and dashboarding needs will find this book useful An understanding of basic BI concepts is required and some familiarity with Microsoft Power BI will be helpful to make the most out of this book

**Applied Microsoft SQL Server 2008 Reporting Services** Teo Lachev, 2008 Provides information on the features and functions of Reporting Services to turn enterprise data into a variety of reports

**Microsoft Power BI Cookbook** Brett Powell, 2017-09-27 Publisher's note This edition from 2017 is outdated and does not make use of the most recent Power BI updates A new third edition updated to the latest release is now available in color Key Features 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 Book Description 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 What you will learn Cleanse stage and integrate your data sources with Power BI Abstract data complexities and provide users with intuitive self service BI capabilities Build business logic and analysis into 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 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

Effective Strategy Execution Bernd Heesen,2024-04-03 Turbulent times require new approaches to strategy execution This book demonstrates how the use of business intelligence can enhance performance by fostering a shared understanding of the strategy through a Value Scorecard It also outlines the Strategic Alignment Process for measuring and monitoring performance The Strategic Alignment Remote Control is presented as the ultimate tool for managers to maintain control of their business The third edition of this book has been updated and improved Seven case studies utilizing business intelligence applications such as Microsoft Excel and Microsoft Power BI have been added in Chapter 6 titled Business Intelligence in Practice These case studies enable readers to learn how to work with key performance indicators and visualize them

Data Mining for Business Intelligence Galit Shmueli,Peter C. Bruce,Inbal Yahav,2011-09-28 Praise for the First Edition full of vivid and thought provoking anecdotes needs to be read by anyone with a serious interest in research and marketing Research magazine Shmueli et al have done a wonderful job in presenting the field of data mining a welcome addition to the literature computingreviews.com Incorporating a new focus on data visualization and time series forecasting Data Mining for Business Intelligence Second Edition continues to supply insightful detailed guidance on fundamental data mining techniques This new edition guides readers through the use of the Microsoft Office Excel add in XLMiner for developing predictive models and techniques for describing and finding patterns in data From clustering customers into market segments and finding the characteristics of frequent flyers to learning what items are purchased with other items the authors use interesting real world examples to build a theoretical and practical understanding of key data mining methods including classification prediction and affinity analysis as well as data reduction exploration and visualization The Second Edition now features Three new chapters on time series forecasting introducing popular business forecasting methods

including moving average exponential smoothing methods regression based models and topics such as explanatory vs predictive modeling two level models and ensembles A revised chapter on data visualization that now features interactive visualization principles and added assignments that demonstrate interactive visualization in practice Separate chapters that each treat k nearest neighbors and Na ve Bayes methods Summaries at the start of each chapter that supply an outline of key topics The book includes access to XLMiner allowing readers to work hands on with the provided data Throughout the book applications of the discussed topics focus on the business problem as motivation and avoid unnecessary statistical theory Each chapter concludes with exercises that allow readers to assess their comprehension of the presented material The final chapter includes a set of cases that require use of the different data mining techniques and a related Web site features data sets exercise solutions PowerPoint slides and case solutions Data Mining for Business Intelligence Second Edition is an excellent book for courses on data mining forecasting and decision support systems at the upper undergraduate and graduate levels It is also a one of a kind resource for analysts researchers and practitioners working with quantitative methods in the fields of business finance marketing computer science and information technology

**Knight's Microsoft Business Intelligence 24-Hour Trainer** Brian Knight, Devin Knight, Adam Jorgensen, Patrick LeBlanc, Mike Davis, 2010-09-27 This book and video package introduces IT professionals DBAs and business analysts who are just starting to get a handle on Microsoft Business Intelligence tools It is therefore intended to be the first book to read and the first video to watch before moving on to Wrox books that focus on each of the individual Microsoft BI components The book and accompanying video give the novice reader just enough experience with the product to perform basic business analysis and reporting The book covers all components and related tools that comprise the Microsoft BI toolset These include SQL Server Integration Reporting and Analysis Services data mining plus the new BI features of Office 2010 Background theory is given as needed to provide context for those readers with no prior BI knowledge or experience The book starts with a basic primer on business intelligence and data modeling The following sections provide step by step lessons that show readers how to use SQL Server Integration Services SQL Server Analysis Services SQL Server Reporting Services Excel BI including PowerPivot SharePoint The book tightly integrates instructional videos provided on the book s accompanying DVD with each of the hands on lessons found in the book Each lesson comprises three major components An Introduction that describes how a certain component or process works A Try It Out section that gives readers the chance to practice what they ve learned A Video showing how the author works through each lesson

**Applied Microsoft SQL Server 2012 Analysis Services** Teo Lachev, 2012-02 A guide to tabular modeling of the Innovative Business Intelligence Semantic Model describes such tasks as integrating data from multiple sources implementing business calculations and KIs and designing cached and real time data access

**Pro Power BI Desktop** Adam Aspin, 2016-04-28 This book shows how to deliver eye catching Business Intelligence with Microsoft Power BI Desktop You can now take data from virtually any source and use it to produce stunning

dashboards and compelling reports that will seize your audience's attention Slice and dice the data with remarkable ease then add metrics and KPIs to project the insights that create your competitive advantage Make raw data into clear accurate and interactive information with Microsoft's free self service business intelligence tool Pro Power BI Desktop will help you to push your BI delivery to the next level You'll learn to create great looking visualizations and let your audience have fun by interacting with the elegant and visually arresting output that you can now deliver You can choose from a wide range of built in and third party visualization types so that your message is always enhanced You'll be able to deliver those results on the PC on tablets on smartphones as well as share results via the cloud Finally this book helps you save time by preparing the underlying data correctly without needing an IT department to prepare it for you Power BI Desktop will let your analyses speak for themselves Simple techniques to make data into insight Polished interactive dashboards to deliver attention grabbing information Visually arresting output on multiple devices grab the reader's attention What You Will Learn Produce designer output to astound your bosses and peers Share business intelligence in the cloud Deliver visually stunning charts maps and tables Make them interactive too Find new insights as you chop and tweak your data as never before Adapt delivery to mobile devices such as phones and tablets Audience Pro Power BI Desktop is written for any user who is comfortable in Microsoft Office Everyone from CEOs and Business Intelligence developers through to power users and IT managers can use this book to outshine the competition by producing 21st Century business intelligence visualizations and reporting on a variety of devices from a variety of data sources All of this is possible through leveraging your existing skill set with the same common Microsoft tools you already use in your daily work

[Microsoft Business Intelligence For Dummies](#)  
Ken Withee,2010-04-05 Learn to create an effective business strategy using Microsoft's BI stack Microsoft Business Intelligence tools are among the most widely used applications for gathering providing access to and analyzing data to enable the enterprise to make sound business decisions The tools include SharePoint Server the Office Suite PerformancePoint Server and SQL Server among others With so much jargon and so many technologies involved Microsoft Business Intelligence For Dummies provides a much needed step by step explanation of what's involved and how to use this powerful package to improve your business Microsoft Business Intelligence encompasses a broad collection of tools designed to help business owners and managers direct the enterprise effectively This guide provides an overview of SharePoint PerformancePoint the SQL Server suite Microsoft Office and the BI development technologies Explains how the various technologies work together to solve functional problems Translates the buzzwords and shows you how to create your business strategy Examines related technologies including data warehousing data marts Online Analytical Processing OLAP data mining reporting dashboards and Key Performance Indicators KPIs Simplifies this complex package to get you up and running quickly Microsoft Business Intelligence For Dummies demystifies these essential tools for enterprise managers business analysts and others who need to get up to speed

**Mastering Microsoft Power BI** Brett Powell,2018-03-29

Design create and manage robust Power BI solutions to gain meaningful business insights Key Features Master all the dashboarding and reporting features of Microsoft Power BI Combine data from multiple sources create stunning visualizations and publish your reports across multiple platforms A comprehensive guide with real world use cases and examples demonstrating how you can get the best out of Microsoft Power BI Book Description This book is intended for business intelligence professionals responsible for the design and development of Power BI content as well as managers architects and administrators who oversee Power BI projects and deployments The chapters flow from the planning of a Power BI project through the development and distribution of content to the administration of Power BI for an organization BI developers will learn how to create sustainable and impactful Power BI datasets reports and dashboards This includes connecting to data sources shaping and enhancing source data and developing an analytical data model Additionally top report and dashboard design practices are described using features such as Bookmarks and the Power KPI visual BI managers will learn how Power BI s tools work together such as with the On premises data gateway and how content can be staged and securely distributed via Apps Additionally both the Power BI Report Server and Power BI Premium are reviewed By the end of this book you will be confident in creating effective charts tables reports or dashboards for any kind of data using the tools and techniques in Microsoft Power BI What you will learn Build efficient data retrieval and transformation processes with the Power Query M Language Design scalable user friendly DirectQuery and Import Data Models Develop visually rich immersive and interactive reports and dashboards Maintain version control and stage deployments across development test and production environments Manage and monitor the Power BI Service and the On premises data gateway Develop a fully on premise solution with the Power BI Report Server Scale up a Power BI solution via Power BI Premium capacity and migration to Azure Analysis Services or SQL Server Analysis Services Who this book is for Business Intelligence professionals and existing Power BI users looking to master Power BI for all their data visualization and dashboarding needs will find this book to be useful While understanding of the basic BI concepts is required some exposure to Microsoft Power BI will be helpful [Delivering Business Intelligence with Microsoft SQL Server 2016, Fourth Edition](#) Brian Larson, 2016-11-04 Distribute Actionable Timely BI with Microsoft SQL Server 2016 and Power BI Drive better faster more informed decision making across your organization using the expert tips and best practices featured in this hands on guide Delivering Business Intelligence with Microsoft SQL Server 2016 Fourth Edition shows step by step how to distribute high performance custom analytics to users enterprise wide Discover how to build BI Semantic Models create data marts and OLAP cubes write MDX and DAX scripts and share insights using Microsoft client tools The book includes coverage of self service business intelligence with Power BI Understand the goals and components of successful BI Build data marts OLAP cubes and Tabular models Load and cleanse data with SQL Server Integration Services Manipulate and analyze data using MDX and DAX scripts and queries Work with SQL Server Analysis Services and the BI Semantic Model Author interactive reports using SQL Server

Data Tools Create KPIs and digital dashboards Implement time based analytics Embed data model content in custom applications using ADOMD NET Use Power BI to gather model and visualize data in a self service environment [Artificial Intelligence with Microsoft Power BI](#) Jen Stirrup, Thomas J. Weinandy, 2024-03-28 Advance your Power BI skills by adding AI to your repertoire at a practice level With this practical book business oriented software engineers and developers will learn the terminologies practices and strategy necessary to successfully incorporate AI into your business intelligence estate Jen Stirrup CEO of AI and BI leadership consultancy Data Relish and Thomas Weinandy research economist at Upside show you how to use data already available to your organization Springboarding from the skills that you already possess this book adds AI to your organization s technical capability and expertise with Microsoft Power BI By using your conceptual knowledge of BI you ll learn how to choose the right model for your AI work and identify its value and validity Use Power BI to build a good data model for AI Demystify the AI terminology that you need to know Identify AI project roles responsibilities and teams for AI Use AI models including supervised machine learning techniques Develop and train models in Azure ML for consumption in Power BI Improve your business AI maturity level with Power BI Use the AI feedback loop to help you get started with the next project [Getting started with Power Query in Power BI and Excel](#) Reza Rad, Leila Etaati, 2021-08-27 Any data analytics solution requires data population and preparation With the rise of data analytics solutions these years the need for this data preparation becomes even more essential Power BI is a helpful data analytics tool that is used worldwide by many users As a Power BI or Microsoft BI developer it is essential to learn how to prepare the data in the right shape and format needed You need to learn how to clean the data and build it in the structure that can be modeled easily and used high performant for visualization Data preparation and transformation is the backend work If you consider building a BI system as going to a restaurant and ordering food The visualization is the food you see on the table nicely presented The quality the taste and everything else comes from the hard work in the kitchen The part that you don t see or the backend in the world of Power BI is Power Query You may be already familiar with some other data preparation and data transformation technologies such as T SQL SSIS Azure Data Factory Informatica etc Power Query is a data transformation engine capable of preparing the data in the format you need The good news is that to learn Power Query you don t need to know programming Power Query is for citizen data engineers However this doesn t mean that Power Query is not capable of performing advanced transformation Unfortunately because Power Query and data preparation is the kitchen work of the BI system many Power BI users skip the learning of it and become aware of it somewhere along their BI project Once they get familiar with it they realize there are tons of things they could have implemented easier faster and in a much more maintainable way using Power Query In other words they learn mastering Power Query is the key skill toward mastering Power BI We have been working with Power Query since the very early release of that in 2013 named Data Explorer and wrote blog articles and published videos about it The number of articles we published under this subject easily exceeds hundreds Through those articles some of the

fundamentals and key learnings of Power Query are explained We thought it is good to compile some of them in a book A good analytics solution combines a good data model good data preparation and good analytics and calculations Reza has written another book about the Basics of modeling in Power BI and a book on Power BI DAX Simplified This book is covering the data preparation and transformations aspects of it This book is for you if you are building a Power BI solution Even if you are just visualizing the data preparation and transformations are an essential part of analytics You do need to have the cleaned and prepared data ready before visualizing it This book is compiled into a series of two books which will be followed by a third book later Getting started with Power Query in Power BI and Excel this book Mastering Power Query in Power BI and Excel already available to be purchased separately Power Query dataflows will be published later Although this book is written for Power BI and all the examples are presented using the Power BI However the examples can be easily applied to Excel Dataflows and other tools and services using Power Query

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