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Intelligence

**Definitive
Dax Intell
igence
Microsoft**

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

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generally available
by Microsoft in July
2015. Power BI is a
complete BI
package that covers
the end to end BI
process including
data acquisition (get
data), data
modelling
(prepare/model the
data) and data
visualisation

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(analyse the data).

And there is a lot of good news about this tool including the fact that the skills needed to succeed with Power BI are fully transferable to Microsoft Excel.

There are 3 learning areas required to master everything

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Power BI Desktop has to offer.1. The M Language - used for data acquisition2. The DAX Language - used to prepare and model data3.

Visualisation and analysis - used to present data in a compelling wayPower BI is

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probably the first commercial grade software product that brings all of these areas into a single software package that is completely accessible to a business user (you don't need to be an IT pro). This book focuses on number

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2 above, the DAX
language (Data
Analysis

Expressions). Super
Charge Power BI
Desktop is the
second book written
by Matt Allington
and is a sister book
to his first book
Learn to Write DAX
(first released Dec
2015). Super

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Charge Power BI Desktop uses the same learning and practice exercise framework as used in Learn to Write DAX however the entire book is written using the Power BI Desktop user interface.

Unfortunately simply reading a book is

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normally not enough
for Excel users
wanting to get the
most out of Power
BI Desktop and to
learn the DAX
language - most
people will also
need some practice.
Super Charge
Power BI Desktop is
different to other
books - it is written

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in such a way to clearly explain the concepts of Power BI data modelling while at the same time giving hands-on practice to deeply engage the reader to help the new knowledge and concepts stick. The book first presents the theory, then

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Intelligence

provides worked
through sample

exercises

demonstrating each
of the concepts, and
finally it provides the
reader with practice
exercises and
answers to

maximize learning
retention.

An easy-to-follow
guide full of hands

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on examples of real-
world Analysis

Services cube

development tasks.

Each topic is

explained and

placed in context,

and for the more

inquisitive reader,

there also more in-

depth details of the

concepts used. If

you are an Analysis

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Services cube
designer wishing to
learn more
advanced topic and
best practices for
cube design, this
book is for you. You
are expected to
have some prior
experience with
Analysis Services
cube development.
Learn how to use

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Excel pivot tables and pivot charts to produce powerful, dynamic reports in minutes instead of hours, to take control of your data and your business. Even if you've never created a pivot table before, this book will help you leverage all their remarkable

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flexibility and
analytical

power--including
valuable

improvements in
Excel and in Office

365. Drawing on
more than 45

combined years of
Excel experience,

Bill Jelen and

Michael Alexander
offer practical

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recipes for solving
real business

problems, help you
avoid common
mistakes, and
present tips and
tricks you'll find
nowhere else.

Your hands-on
guide to building
effective Power BI
dashboards Expand
your expertise – and

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teach yourself how
to create world-
class Power BI
business analysis
dashboards that
bring data to life for
better decision-
making. If you're an
experienced
business
intelligence
professional or
manager, you'll get

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all the guidance,
examples, and code
you need to
succeed – even if
you've never used
Power BI before.

Successfully design,
architect, and

implement Power BI
in your organization

Take full advantage
of any Microsoft

Power BI platform,

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Intelligence
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including Power BI
Premium Make
upfront decisions
that position your
Power BI project for
success Build rich,
live dashboards to
monitor crucial data
from across your
organization
Aggregate data and
data elements from
numerous internal

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and external data
sources Develop

dynamic

visualizations,

including charts,

maps, and graphs

Bring data to life

with stunning

interactive reports

Ensure dashboard

security and

compliance Drive

user adoption

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Microsoft
through effective
training

Give Your Data
Meaning

Super Charge
Power BI

The BISM Tabular
Model

Hands-On Business
Intelligence with
DAX

Pro DAX with Power
BI

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Glitter and Glam
How to Design and
Create a Financial
Dashboard with
Power BI – End to
End

An accessible
fast paced
introduction to
all aspects of
Power BI for new
or aspiring BI
professionals,

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data analysts,
and data
visualizers Key
Features Updated
with the latest
features in
Power BI
including
Dataflow, AI
insights,
visuals and row
level
security Get
faster and more

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Intelligence
Microsoft

intuitive data
insights using
Microsoft Power
BI and its
business
intelligence cap
abilities Build
accurate
analytical
models, reports,
and
dashboards

Book
Description This
revised edition

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has been fully updated to reflect the latest enhancements to Power BI. It includes a new chapter dedicated to dataflow, and covers all the essential concepts such as installation,

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designing
effective data
models, as well
as building
basic dashboards
and
visualizations
to help you and
your
organization
make better
business
decisions.

You'll learn how

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to obtain data from a variety of sources and clean it using Power BI Query Editor. You'll then find out how you can design your data model to navigate and explore relationships within it and

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build DAX

formulas to make
your data easier
to work with.

Visualizing your
data is a key
element in this
book, and you'll
get to grips
rapidly with
data

visualization
styles and
enhanced digital

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storytelling techniques. In addition, you will acquire the skills to build your own dataflows, understand the Common Data Model, and automate data flow refreshes to eradicate data cleansing

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inefficiency.
This guide will help you understand how to administer your organization's Power BI environment so that deployment can be made seamless, data refreshes can run properly,

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and security can
be fully
implemented. By
the end of this
Power BI book,
you'll have a
better
understanding of
how to get the
most out of
Power BI to
perform
effective
business

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Intelligence.
Microsoft
intelligence.
What you will
learnConnect to
data sources
using import and
DirectQuery
optionsUse Query
Editor for data
transformation
and data
cleansing
processes,
including
writing M and R

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scripts and
dataflows to do
the same in the
cloudDesign
optimized data
models by
designing
relationships
and DAX calculat
ionsDesign
effective
reports with
built-in and
custom

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Intelligence
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visuals Adopt
Power BI Desktop
and Service to
implement row-
level security Ad
minister a Power
BI cloud tenant
for your
organization Use
built-in AI
capabilities to
enhance Power BI
data
transformation

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techniques Deploy
your Power BI
desktop files
into the Power
BI Report
Server Who this
book is for
Aspiring
business
intelligence
professionals
who want to
learn Power BI
will find this

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book useful. If you have a basic understanding of BI concepts and want to learn how to apply them using Microsoft Power BI, this book is for you.

Written by a Microsoft MVP, this book teaches you the

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practical skills
to take the most

of DAX from
whatever angle
you'd like to
approach it.

It's written for
data analysts
using Power BI
or Power Pivot,
BI developers
targeting

Analysis
Services

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Tabular, and in general anyone who's interested in DAX. You'll learn DAX methodically with self-paced lessons that build upon your previous knowledge to introduce progressively more challenging

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concepts. Each lesson starts with providing the necessary theoretical background, followed by step-by-step exercises. Most lessons are five to six pages long, and it should take you no more than 15

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minutes to complete the practices. Do one lesson per day and become a DAX expert in a month! The book page at <https://prologika.com/daxbook> provides sample chapters, source code, and a discussion forum where the

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author welcomes
your feedback

and questions.

WHAT'S INSIDE:

CALCULATED

COLUMNS Create

custom columns

Navigate

relationships

Assemble

dashboards with

a few clicks

Aggregate and

rank data

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Implement groups
and bins Create
calculated
tables MEASURES
Implicit and
explicit
measures Work
with user
selection Create
variables
Overwrite filter
context Group
data Apply time
intelligence

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QUERIES Create
and test DAX
queries
Implement query
measures Analyze
query
performance
Implement
paginated
reports ADVANCED
TOPICS Recursive
relationships
Many-to-many
relationships

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relationships
Different join
types Data
security
patterns and
much more ...
Attention all
SQL Pros, DAX is
not just for
writing Excel-
based formulas!
Get hands-on
learning and

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expert advice on how to use the vast capabilities of the DAX language to solve common data modeling challenges. Beginning DAX with Power BI teaches key concepts such as mapping techniques from

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SQL to DAX,
filtering,
grouping,
joining,
pivoting, and
using temporary
tables, all
aimed at the SQL
professional.
Join author
Philip Seamark
as he guides you
on a journey
through typical

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business data transformation scenarios and challenges, and teaches you, step-by-step, how to resolve challenges using DAX. Tips, tricks, and shortcuts are included and explained, along with examples of

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the SQL equivalent, in order to accelerate learning. Examples in the book range from beginner to advanced, with plenty of detailed explanation when walking through each scenario.

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What You'll
Learn

Turbocharge your
Power BI model
by adding
advanced DAX
programming
techniques Know
when to use
calculated
measures versus
calculated
columns Generate
new tables on

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the fly from
existing data
Optimize,
monitor, and
tune Power BI to
improve
performance of
your models
Discover new
ideas, tricks,
and time-saving
techniques for
better models
Who This Book Is

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Intelligence
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For Business
intelligence
developers,
business
analysts, or any
SQL user who
wants to use
Power BI as a
reporting tool.
A solid
understanding of
SQL is
recommended, as
examples

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

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

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worksheets.

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Power Query,
part of the
Microsoft Power
BI suite, is a
tool that
automates the
process of
getting data
into Excel and
will save you
hours of dull,
repetitive, and
error-prone

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work! Power

Query makes it
easy to extract
data from many
different data
sources, filter
that data,
aggregate it,
clean it and
perform
calculations on
it, finally
loading that
data into either

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your worksheet
or directly into
the new Excel
2013 Data Model
used by Power
Pivot. This
concise,
practical book
provides a
complete guide
to Power Query
and how to use
it to solve all
of your Excel

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data-loading
problems. Power
Query for Power
BI and Excel
goes well beyond
the surface of
what Power Query
can do. The book
goes deep into
the underlying M
language,
showing you how
to do amazing
things that

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aren't going to be possible from just the GUI interface that is covered in most other books. You'll have full command of the GUI, and you'll be able to drop into the M language to go beyond what the

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GUI provides.

The depth in this book makes it a must-have item for anyone who is pushing Power BI and Excel to their limits in the pursuit of business intelligence from data analysis.

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Teaches the
basics of using
Power Query to
load data into
Excel Helps you
solve common,
data-related
problems with
Power Query
Shows how to
write your own
solutions in the
powerful M
language

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Intelligence
Mastering

Microsoft Power
BI

Build Business
Intelligence
Applications
Powered with DAX
Calculations,
Insightful
Visualizations,
Advanced BI
Techniques, and
Loads of Data
Sources (English)

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Edition)

Tabular Modeling
in Microsoft SQL
Server Analysis
Services
Business
Intelligence
with Microsoft
Excel, SQL
Server Analysis
Services, and
Power BI
Expert Cube
Development with

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SSAS
Microsoft
Multidimensional
Models
The Excel Pro's
Guide to
Mastering Dax
Beginning DAX
with Power BI
Now expanded and
updated with modern
best practices, this is
the most complete
guide to Microsoft ' s

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DAX language for business intelligence, data modeling, and analytics. Expert Microsoft BI consultants Marco Russo and Alberto Ferrari help you master everything from table functions through advanced code and model optimization. You ' ll

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learn exactly what happens under the hood when you run a DAX expression, and use this knowledge to write fast, robust code. This edition focuses on examples you can build and run with the free Power BI Desktop, and helps you make the most of the powerful syntax of

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variables (VAR) in
Power BI, Excel, or
Analysis Services.

Want to leverage all of
DAX ' s remarkable
capabilities? This no-
compromise “ deep
dive ” is exactly what
you need. Perform
powerful data analysis
with DAX for Power
BI, SQL Server, and
Excel . Master core

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DAX concepts,
including calculated
columns, measures,
and calculation groups

- Work efficiently
with basic and
advanced table
functions •

Understand
evaluation contexts
and the

CALCULATE and
CALCULATETABL

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E functions ·

Perform time-based calculations · Use calculation groups and calculation items ·

Use syntax of variables (VAR) to write more readable, maintainable code ·

Express diverse and unusual relationships with DAX, including many-to-many

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relationships and
bidirectional filters .

Master advanced
optimization

techniques, and
improve performance
in aggregations .

Optimize data models
to achieve better
compression .

Measure DAX query
performance with
DAX Studio and learn

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how to optimize your
DAX

Build agile and responsive business intelligence solutions
Create a semantic model and analyze data using the tabular model in SQL Server 2016 Analysis Services to create corporate-level business intelligence (BI)

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solutions. Led by two BI experts, you will learn how to build, deploy, and query a tabular model by following detailed examples and best practices. This hands-on book shows you how to use the tabular model ' s in-memory database to perform rapid

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analytics—whether you are new to Analysis Services or already familiar with its multidimensional model. Discover how to:

- Determine when a tabular or multidimensional model is right for your project
- Build a tabular model using SQL Server Data

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Tools in Microsoft
Visual Studio 2015 •
Integrate data from
multiple sources into a
single, coherent view
of company
information •
Choose a data-
modeling technique
that meets your
organization ' s
performance and
usability requirements

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- Implement security by establishing administrative and data user roles
- Define and implement partitioning strategies to reduce processing time
- Use Tabular Model Scripting Language (TMSL) to execute and automate administrative tasks
- Optimize your data

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model to reduce the memory footprint for VertiPaq • Choose between in-memory (VertiPaq) and pass-through (DirectQuery) engines for tabular models • Select the proper hardware and virtualization configurations • Deploy and manipulate tabular

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models from C# and PowerShell using AMO and TOM libraries Get code samples, including complete apps, at: <http://aka.ms/tabular/downloads> About This Book • For BI professionals who are new to SQL Server 2016 Analysis Services or already familiar

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with previous versions of the product, and who want the best reference for creating and maintaining tabular models. •

Assumes basic familiarity with database design and business analytics concepts.

Implement business intelligence (BI), data

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modeling, and data
analytics within

Microsoft products
such as Power BI,
SQL Server, and
Excel Key Features

Understand the ins
and outs of DAX
expressions and
querying functions
with the help of easy-
to-follow examples
Manipulate data of

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varying complexity
and optimize BI

workflows to extract
key insights Create,
monitor, and improve
the performance of
models by writing
clean and robust DAX
queries Book

Description Data
Analysis Expressions
(DAX) is known for its
ability to increase

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efficiency by
Microsoft
extracting new
information from data
that is already present
in your model. With
this book, you ' ll
learn to use DAX ' s
functionality and
flexibility in the BI
and data analytics
domains. You ' ll start
by learning the basics
of DAX, along with

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understanding the importance of good data models, and how to write efficient DAX formulas by using variables and formatting styles.

You ' ll then explore how DAX queries work with the help of examples. The book will guide you through optimizing the BI

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workflow by writing powerful DAX queries. Next, you ' ll learn to manipulate and load data of varying complexity within Microsoft products such as Power BI, SQL Server, and Excel Power Pivot. You ' ll then discover how to build and extend your

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data models to gain additional insights, before covering progressive DAX syntax and functions to understand complex relationships in DAX. Later, you ' ll focus on important DAX functions, specifically those related to tables, date and time,

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filtering, and statistics.

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Finally, you ' ll delve into advanced topics such as how the formula and storage engines work to optimize queries. By the end of this book, you ' ll have gained hands-on experience in employing DAX to enhance your data models by extracting

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new information and gaining deeper insights. What you will learn Understand DAX, from the basics through to advanced topics, and learn to build effective data models Write and use DAX functions and expressions with the help of hands-on examples Discover

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how to handle errors
in your DAX code,
and avoid unwanted
results Load data into
a data model using
Power BI, Excel
Power Pivot, and
SSAS Tabular Cover
DAX functions such
as date, time, and time
intelligence using code
examples Gain
insights into data by

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using DAX to create
new information

Understand the DAX
VertiPaq engine and
how it can help you
optimize data models

Who this book is for
This book is for data
analysts, business
analysts, BI

developers, or SQL
users who want to
make the best use of

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DAX in the BI and data analytics domain with the help of examples. Some understanding of BI concepts is mandatory to fully understand the concepts covered in the book.

Design, create and manage robust Power BI solutions to gain meaningful business

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Intelligence
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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

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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

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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

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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,

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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

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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

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Intelligence
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in Microsoft PowerBI.

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

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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

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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

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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.

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Intelligence

Bring your data to life
through data

modeling,

visualization, digital
storytelling, and more

Building Data Models
with PowerPivot

The SQL Pro 's

Guide to Better

Business Intelligence

Microsoft Power BI

Complete Reference

Dazzling Makeup

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Tips for Date Night,
Club Night, and
Beyond

Over 120 recipes to
enhance your business
with analytics,
reporting, and
business intelligence

Getting started with
Power Query in

Power BI and Excel

**Conquer Office
apps in**

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Intelligence

Microsoft 365

Microsoft

-- from the
inside out!

Dive into

Microsoft

Office and

really put its
productivity

tools and

services to

work! This

supremely

organized

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Microsoft
**reference packs
hundreds of
timesaving
solutions,
tips, and
workarounds --
all you need to
make the most
of Office's
most powerful
tools for
productivity
and decision-**

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Intelligence
making.

Microsoft
Renowned Office
expert Joe
Habraken offers
a complete
tour, with
cutting-edge
techniques and
shortcuts for
Word, Excel,
PowerPoint,
Outlook,
OneNote, and

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Teams. Discover how experts tackle today's key tasks -- and challenge yourself to new levels of mastery. Create amazing content faster with Office's new features, tools, and

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shortcuts
Share,
collaborate
with, and
secure Office
files in the
cloud Organize,
edit, and
format complex
documents with
Microsoft Word
Build tables of
contents,

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captions,
Microsoft
indexes, and
footnotes that
automatically
update

Efficiently
enter and
manage data in
Excel

workbooks, and
format it for
easy
understanding

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**Build flexible,
reliable Excel
workbooks with
formulas and
functions
Integrate data
from external
sources,
including web
tables, text
files, and more
Transform data
into insight**

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Intelligence
with Excel
Microsoft

charts,
Sparklines, and
PivotTables
Quickly create
presentations
with PowerPoint
themes, Reuse
Slides, and
Libraries Build
more impactful
slides with
advanced

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**formatting,
SmartArt,
animation,
transitions,
and multimedia
Use PowerPoint
tools to
present more
effectively,
both in person
and online
Systematically
improve email**

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**productivity
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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

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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

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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.

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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

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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

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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

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**rainbow of
shades to
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These looks are
stunning,
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and guaranteed
to make a
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to build a powerful
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complexity with
different data

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well-versed with data

modeling techniques

to make the most of

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