Power BI for Jobseekers

Learn how to create interactive dashboards and reports, and gain insights from the data

Alan Murray



ii 📃

Copyright © 2023 BPB Online

All rights reserved. No part of this book may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, without the prior written permission of the publisher, except in the case of brief quotations embedded in critical articles or reviews.

Every effort has been made in the preparation of this book to ensure the accuracy of the information presented. However, the information contained in this book is sold without warranty, either express or implied. Neither the author, nor BPB Online or its dealers and distributors, will be held liable for any damages caused or alleged to have been caused directly or indirectly by this book.

BPB Online has endeavored to provide trademark information about all of the companies and products mentioned in this book by the appropriate use of capitals. However, BPB Online cannot guarantee the accuracy of this information.

First published: 2023

Published by BPB Online WeWork 119 Marylebone Road London NW1 5PU UK | UAE | INDIA | SINGAPORE

ISBN 978-93-55518-149

www.bpbonline.com

iii

Dedicated to

My amazing children:

George & Lily

iv 📃

About the Author



Alan Murray is a Microsoft MVP and Excel & Power BI trainer. He has been training and consulting in Microsoft technologies for over 20 years. He loves training and the joy he gets from knowing he is making peoples' working lives easier.

Alan runs his own blog - **Computergaga** (https:// computergaga.com) and writes for multiple other websites. His Computergaga YouTube channel has over 600 videos and over 40 million views.

He organizes a free monthly **Excel & Power BI meetup** in London where anyone can come, learn, chat, and enjoy each other's company.

About the Reviewers

Dinesh Manoharan is a veteran in the field of Data and Analytics and has a broad range of expertise in Power BI, Qlik, and Tableau reporting and data storytelling. Has traction towards predictive and prescriptive analytics using R, Python, and Azure ML. He helped customers to make data-driven decisions and possesses good hands-on experience in design, data modeling, performance tuning, and turning data into actionable insights.

As part of the BI Centre of Excellence team, Dinesh is a certified data analyst working in various domains to drive data culture, with his deep data knowledge reduced data-to-insights turnaround time. He actively handles training sessions on Data literacy and Analytical tools.

He likes to play badminton, cycling, listen music and admire nature."

Preeti Sahu is an expert in Power BI and has an extensive background working with SharePoint and the Power Platform. She is currently employed by TSinfo Technologies as a Power Platform specialist for Power BI, Power Apps, Power Automate, and Power Virtual Agents. She is the author of the Microsoft Power Platform A Deep Dive book and the co-author of the SharePoint Online Modern Experience Practical Guide book. Also, she contributed a significant number of technical articles on the Power Platform to SPGuides.com and EnjoySharePoint.com. In addition to traveling, she enjoys spending time with her family during her free time.

v

Acknowledgement

I would like to thank the Power BI community – the experts, professionals, learners, and Microsoft. We learn and grow together. Without Power BI and the amazing community providing solutions to others' problems and pushing Microsoft to constantly make it better, there would be no book.

A special thanks to those within my own community. Subscribers of my Computergaga YouTube channel, blog, and members of my London Excel Meetup group. Together we learn and you inspire me to be the best I can be. Thank you for holding me accountable for the quality of my work and for your support.

My gratitude to the team at BPB Publications for being supportive throughout the writing of this book. In this constantly evolving space, and with software updating monthly, there were numerous times when an update required that I go back and update chapters. I needed their support through this demanding process.

Finally, as always, thank you to my children, George, and Lily. I'm very lucky.

vi 📃

Preface

Data is everywhere!

Data is a precious commodity for businesses and there has never been a more exciting time for those who like to work with data.

Businesses store huge volumes of data, which they use to make decisions to stay competitive in their field. This means there is a large demand for people with the skills to make sense of that data.

Having data is useless without meaning. The ability to create reports that result in better understanding and therefore drive effective decision-making is in high demand. Businesses want to maximize the value of their data.

Power BI Desktop is the best tool for self-service business intelligence and analytics. This free tool makes it easy to acquire, shape, model, and present data in an effective and interactive way.

The Power BI Service then provides a cost-effective way to share these reports with other members of your team or with management.

Learning Power BI will give you the edge over others who still use over-priced, rigid, and limited tools. The Microsoft data platform is the leader in the analytics and BI market.

This book will demonstrate the demand for data analytics skills by businesses today, where you can find work and what employers will expect from you.

It then takes you on a practical guide to Microsoft Power BI. No prior knowledge is required. This is a comprehensive beginners guide to Power BI.

Power BI for Job Seekers is divided into 19 chapters.

Chapter 1: Why Learn Power BI? - The first chapter of this book explains why you should learn Power BI. This is supported by data from job searches, market research and the words of current professionals from recruitment and consultancy firms working with Power BI and data analysis.

viii

Chapter 2: What is Power BI? - In this chapter we start to explore Power BI. We start by explaining the different components of Power BI. We then download and install Power Bi Desktop and create a Power BI account.

Chapter 3: Getting Started with Power BI Desktop – In this chapter, we get started using Power BI Desktop. We familiarise ourselves with the Power BI Desktop environment, create a new Power BI file, and explore important options and settings.

Chapter 4: Creating a Simple Power BI report - Things now get very exciting. In this chapter, we create our first Power BI report. This is a simple, but effective report, to showcase the general process of how to create a report in Power BI. We will connect to external data, perform transformations to the data, build visuals and specify how the reader can interact with them.

Chapter 5: Getting and Shaping Data - In this chapter, we look at how to get data from a variety of sources into Power BI. These sources include from PDF files, Excel workbooks, OneDrive, and local folders. Various transformations will be performed to shape the data before loading it to Power BI. This is the beginning of the report that we will focus on creating throughout this book.

Chapter 6: More Data Transformations- In this chapter, we explore further data transformations that I feel deserve some coverage in this book. These transformations are incredibly useful. They include merge queries and the different join types, performing date transformations, calculations in Power Query, and the brilliant unpivot columns feature.

Chapter 7: Creating the Data Model - In this chapter, we fine-tune the data model ready for the DAX calculations and report visuals that are to come. This includes establishing relationships between the tables of the data model, hiding unnecessary fields, and formatting field values correctly.

Chapter 8: Creating a Date Table - In this chapter, we continue building the data model of our report by adding a date table. We begin by detailing why you need a date table in your model and what one consists of. We then create the date table using the DAX formula language and add the columns that we require. We then ensure that the columns are ordered correctly and mark the table as a date table. This ensures that Power BI works effectively with our new date table and does not create its own date tables to perform time intelligence.

ix

Chapter 9: Adding DAX Measures - In this chapter, we delve further into the DAX formula language and look at measures. Measures are DAX calculations that aggregate the values for many rows of a table. We will create measures that we require for our report building in the forthcoming chapters. You will learn a few very useful DAX functions including CALCULATE, RELATED, COUNTROWS, SUMX, and DIVIDE to name a few.

Chapter 10: Cards and Other Text Visuals - In this chapter, we begin looking at the visualizations available in Power BI to present your data effectively. This chapter focuses on text-based visuals, of which there are four that will be covered – the Card, KPI, Table and Matrix.

Chapter 11: Chart Visuals - This chapter will focus on using the chart visuals in Power BI including the column, line, combo, gauge, and treemap visuals. You will see practical examples of their use and learn key formatting attributes that can be changed to increase the effectiveness of the visual.

Chapter 12: Using Maps in Power BI Reports - In this chapter, we look at the map visual of Power BI and use it to efficiently visualize geographic data such as countries, cities, and postcodes. You will learn a few tips to get the most out of your Power BI maps.

Chapter 13: Other Power BI Visualizations - In this chapter, we dive into the AI visuals of Power BI including the Q&A, Decomposition Tree, and Smart Narrative visuals. We also cover how to import custom visuals from the AppSource marketplace to cater for scenarios when the standard visuals do not fulfil your needs.

Chapter 14: Report Interactions, Filters & Slicers - This chapter is about the different ways that we can enable a user to interact and filter the visuals on report pages. We cover visual interactions, slicers, the Filters pane, and Drill through.

Chapter 15: Enhancing your Power BI Reports - In this chapter, we will make some final enhancements to our report before we publish it to the Power BI service and share it with others. We start with inserting objects such as text boxes, images, and buttons. Then we move to creating custom tooltips pages and using bookmarks in your Power BI reports.

Chapter 16: Publishing & Sharing your Reports - In this chapter, we publish our report and explore the Power BI Service. We look at how to share our report with

x

others both inside and outside of the organization and create new reports from existing datasets that have been published.

Chapter 17: Datasets, Dashboards & Reports - In this chapter, we will dive into more details on some of the key features of the Power BI service – datasets, dashboards, and reports. We will see how to create your own workspaces and specify the access for different users and groups and the permissions that they have. We will also cover the important topic of how to refresh your data and your reports.

Chapter 18: Power BI and Other Apps - This chapter looks at some associated tools to Power BI that are important to know. A key topic is the way that Power BI interacts with Excel. It is very easy to transfer your data models between Excel and Power BI and vice versa. We will also look at how Power BI can interact with PowerPoint and with Microsoft Teams.

Chapter 19: Interview Questions, Certifications & Resources - The final chapter of the book looks at how to land your analysis job. We ask recruiters what they are looking for when hiring an analyst including typical interview questions, experience, and skills, so that you can be fully prepared. We also look at useful certifications and further learning and development opportunities.

Code Bundle and Coloured Images

Please follow the link to download the *Code Bundle* and the *Coloured Images* of the book:

https://rebrand.ly/dbgic3o

The code bundle for the book is also hosted on GitHub at **https://github.com/bpbpublications/Power-BI-for-Jobseekers**. In case there's an update to the code, it will be updated on the existing GitHub repository.

We have code bundles from our rich catalogue of books and videos available at **https://github.com/bpbpublications**. Check them out!

Errata

We take immense pride in our work at BPB Publications and follow best practices to ensure the accuracy of our content to provide with an indulging reading experience to our subscribers. Our readers are our mirrors, and we use their inputs to reflect and improve upon human errors, if any, that may have occurred during the publishing processes involved. To let us maintain the quality and help us reach out to any readers who might be having difficulties due to any unforeseen errors, please write to us at :

errata@bpbonline.com

Your support, suggestions and feedbacks are highly appreciated by the BPB Publications' Family.

Did you know that BPB offers eBook versions of every book published, with PDF and ePub files available? You can upgrade to the eBook version at www.bpbonline.com and as a print book customer, you are entitled to a discount on the eBook copy. Get in touch with us at :

business@bpbonline.com for more details.

At **www.bpbonline.com**, you can also read a collection of free technical articles, sign up for a range of free newsletters, and receive exclusive discounts and offers on BPB books and eBooks.

xii

Piracy

If you come across any illegal copies of our works in any form on the internet, we would be grateful if you would provide us with the location address or website name. Please contact us at **business@bpbonline.com** with a link to the material.

If you are interested in becoming an author

If there is a topic that you have expertise in, and you are interested in either writing or contributing to a book, please visit **www.bpbonline.com**. We have worked with thousands of developers and tech professionals, just like you, to help them share their insights with the global tech community. You can make a general application, apply for a specific hot topic that we are recruiting an author for, or submit your own idea.

Reviews

Please leave a review. Once you have read and used this book, why not leave a review on the site that you purchased it from? Potential readers can then see and use your unbiased opinion to make purchase decisions. We at BPB can understand what you think about our products, and our authors can see your feedback on their book. Thank you!

For more information about BPB, please visit www.bpbonline.com.

Join our book's Discord space

Join the book's Discord Workspace for Latest updates, Offers, Tech happenings around the world, New Release and Sessions with the Authors:

https://discord.bpbonline.com



Table of Contents

INTRODUCTION

1.	Why Learn Power BI?1
	Introduction1
	Structure1
	Objectives2
	Gartner Magic Quadrant 20222
	Demand for Power BI skills
	The words of current professionals6
	Conclusion
	Points to remember9
2.	What is Power BI?11
	Introduction
	Structure
	Objectives
	The three components of Power BI
	Power BI desktop
	Power query
	Model the data
	DAX
	Visualizations15
	Publish your reports
	Power BI service
	Workspaces17
	Datasets
	<i>Reports</i>
	Dashboards
	Apps
	Power BI mobile19
	Installing power BI desktop19
	Downloading from the Microsoft store20

xiv			

	Downloading directly from Microsoft.com	21
	Creating a Power BI account	24
	Conclusion	25
	Questions	25
3.	Getting Started with Power BI Desktop	27
	Introduction	27
	Structure	27
	Objectives	27
	A first look at Power BI Desktop	28
	Welcome screen	
	The Report view	29
	The Data view	31
	The Model view	33
	Exploring useful options and settings	34
	Data load	35
	Preview features	
	Regional settings	
	Query reduction	
	Report settings	40
	Saving a Power BI Desktop file	41
	Conclusion	41
	Questions	42
4.	Creating a Simple Power BI Report	
	Introduction	43
	Structure	
	Objectives	44
	Getting data from the Web	44
	Transforming data in Power Query	47
	Removing columns	48
	Splitting columns by a delimiter	50
	Converting negative values to positive	
	Using trim to remove excess spaces	
	Renaming columns	
	Changing column data types	54

xv

	Renaming steps	
	Applying Queries in Power BI	58
	Creating a column chart	59
	Editing existing queries	62
	Using column from examples	63
	Modifying the column chart visual	65
	Changing the order of the X-axis	
	Creating a table visual	
	Interactions between the visuals	
	Conclusion	75
	Questions	75
_		
5.	Getting and Shaping Data	
	Introduction	
	Structure	
	Objectives	
	Creating a New Power BI file	
	Getting data with Power Query	
	Import versus DirectQuery mode	80
	Getting data from an Excel Workbook	
	Removing rows	
	Splitting columns	
	Data types and renaming columns	
	Getting data from PDF files	
	Appending queries	
	<i>Promote the headers of a table</i>	
	Merging columns	
	Data types and renaming columns	
	Importing data from multiple files in a folder	
	Combine the data from all files into one table	
	Removing unwanted characters	
	Changing the case of text	
	Data types and renaming columns	
	Importing data from files stored on OneDrive/SharePoint	
	Combine all tables into one	
	Data types and renaming columns	

xvi

Managing data source settings	
Data sources in the current file	
Changing global permissions	
Changing source in the Power Query Editor	
Conclusion	
Questions	
6. More Data Transformations	121
Introduction	
Structure	
Objectives	
Merge queries	
The different join kinds	
Left Outer Join—adding a column to a table	
Left Anti Join—removing rows from a table	
Establishing the date data type	
Using the locale data type	
Converting ISO 8601 Dates	
Calculations in power query	
Mathematical calculations	
Rounding values	
Adding and editing M code	
Changing the rounding method	
Defining a data type	
Date functions—calculating age	
Inserting conditional columns	
Unpivoting columns	
Conclusion	
Questions	
7. Creating the Data Model	
Introduction	
Structure	
Objectives	
Why create table relationships?	
Cardinality	

xvii

Creating table relationships	
Managing the relationships of a model	
Disabling queries from loading	
Formatting table columns	
Hiding table fields from the Report view	
Deleting fields from a model	
Conclusion	
Questions	
8. Creating a Date Table	
Introduction	
Structure	
Objectives	
Why create a date table?	
Introduction to DAX	
CALENDARAUTO and CALENDAR functions	
CALENDARAUTO function	
CALENDAR function	
Creating additional date columns	
Year	
Month	
Year and month	
Day of week name	
Is it a weekend date or not?	
Fiscal years	
Fiscal quarters	
Fiscal months	
Week number of the year	
Create the date table with one formula	
Sorting table columns by another column	
Creating the relationships to the date table	
Marking a table as a date table	
Hiding other date fields	
Conclusion	
Questions	

xviii		
-------	--	--

9. Adding DAX Measures	
Introduction	
Structure	210
Objectives	210
What is a measure in Power BI?	
Implicit versus explicit measures	
The COUNTROWS function	
Organizing your measures	
How do I move a measure?	
Creating folders within tables	
Creating a measure table	
SUMX and other iterator functions	
Returning the previous months revenue	
The CALCULATE function	
The DATEADD function	
Writing the measure	
Revenue difference between the two months	
Calculating the percentage revenue change	231
Creating a year-to-date total	232
Conclusion	234
Questions	235
10. Cards and Other Text Visuals	237
Introduction	
Structure	
Objectives	
The Card visual	
Formatting the callout value	
Category label versus title	240
Adding a border	242
Format painter	
KPI	
Inserting a Slicer	
Removing the icon	
0	

xix

Adding the title and border	252
Table visual	
Formatting the grid and values	254
Formatting the column headers	
Sorting table data	
Sorting a table by multiple columns	
Matrix	
Formatting the grid and values	
Formatting the column headers	
Drill down actions for multiple row headers	
Conclusion	
Questions	
11. Chart Visuals	
Introduction	
Structure	
Objectives	270
Column and bar charts	
Clustered column chart	
Adding tooltips	271
Formatting the clustered column chart	273
Changing the chart title	
Adding a border	
Changing the column colors	
Removing axis and axis titles	
Adding data labels	277
Stacked column chart	
Switching to a bar chart	
Line and area charts	
Line chart	
Line chart with multiple data series	
Stacked area chart	
Combo charts	
Pie and donut charts	
Gauge charts	
General formatting	

xx	

xx		
	Visual formatting	
	KPI versus gauge charts	
	Treemap visual	
	Conclusion	
	Questions	
12.	Using Maps in Power BI Reports	
	Introduction	
	Structure	
	Objectives	
	Enable map visuals in Power BI	
	The Map visual	
	Using the Map visual	
	Editing the map title	
	Changing the map style	
	Formatting the bubbles	310
	Using a table to filter the map data	
	Disabling the auto-zoom feature	
	Tips for using the map visuals	
	Categorize the geographic fields	
	Using latitude and longitude data	
	Using geographic hierarchies	
	Conclusion	
	Questions	
13.	Other Power BI Visualizations	
	Introduction	
	Structure	
	Objectives	
	The Q&A visual	
	Using the Q&A Visual	
	Formatting the Q&A	
	Configuring the Q&A visual	
	Adding synonyms	
	Creating suggested questions	
	Decomposition tree	

xxi

Smart narrative	
Creating the smart narrative	
Adding and formatting dynamic values	
Custom visuals in Power BI	
Adding a custom visual from AppSource	
Removing a custom visual	
Conclusion	
Questions	
14. Report Interactions, Filters, and Slicers	
Introduction	
Structure	
Objectives	
Editing visual interactions	
Slicers	
Using date fields in a slicer	
Using text fields in a slicer	
Filtering visuals on other pages	
The Filters Pane	
Setting a Top $oldsymbol{N}$ filter	
Filter all visuals on a page or all pages	
Using drill through	
Creating a drill through	
Performing the drill through	
Adding a page title	
Conclusion	
Questions	
15. Enhancing Your Power BI Reports	
Introduction	
Structure	
Objectives	
Adding text boxes, images, and buttons	

xxii

Adding tout lower	200
Adding text boxes	
Adding images	
Adding buttons	
Changing the drill through back button	
Page navigator buttons	
Adding a background	
Custom tooltip pages	
Creating a custom tooltip page	
Adding visuals to the custom tooltip page	
Adding the tooltip page to a visual	404
Using bookmarks	
Creating bookmarks	
Inserting buttons to run the bookmarks	410
Conclusion	
Questions	
16. Publishing and Sharing Your Reports	
Introduction	
Structure	
Objectives	
Publishing your Report	
Accessing the report on the service	
Datasets and reports	
Creating a report from an existing dataset	
From the Power BI Service	
From Power BI Desktop	
Share a link to the report	
Managing report permissions	
Conclusion	
Questions	
17. Datasets, Dashboards, and Reports	
Introduction	

xxiii

	Structure	431
	Objectives	
	Workspaces	
	Creating a new workspace	
	Managing access to a workspace	434
	Copying a report to another workspace	
	Refreshing datasets and reports	
	Power BI data gateways	
	Installing the standard mode gateway	
	Adding data sources to a gateway	
	Refreshing your data	451
	Scheduling data refreshes	452
	Dashboards	454
	Creating a dashboard	454
	Pinning visuals to a dashboard	455
	Sharing a dashboard	
	Conclusion	459
	Questions	
18. Po	wer BI and Other Apps	461
	Introduction	461
	Structure	461
	Objectives	
	Power BI and Excel	
	Creating Excel Reports from Power BI datasets	
	Using Analyze in Excel	462
	Connecting to Power BI datasets from Excel	
	Import Power Pivot models into Power BI	
	From Power BI Desktop	
	From the Power BI service	
	Export to PowerPoint	474
	Embed an image	

xxiv

Embed live data	
Publishing to teams	
Power BI App in Microsoft teams	
Embed reports in Teams channels and chats	
Conclusion	
Questions	
19. Interview Questions, Certifications, and Resources	
Introduction	
Structure	
Objectives	
Interview questions	
Knowledge	
Experience	
Passion	
Certifications	
Useful resources	
Websites	
YouTube channels	
Podcasts	
Meetups and conferences	
Conclusion	
Questions	
Multiple Choice Questions Answers	
Answers	
Chapter 2	
Chapter 3	
Chapter 4	
Chapter 5	
Chapter 6	
Chapter 7	
Chapter 8	

xxv

Chapter 9	
Chapter 10	
Chapter 11	
Chapter 12	
Chapter 13	
Chapter 14	
Chapter 15	
Chapter 16	
Chapter 17	
Chapter 18	
Chapter 19	
Index	

Introduction

Data is everywhere!

Data is a precious commodity for businesses, and there has never been a more exciting time for those who like to work with data.

Businesses store huge volumes of data, which they use to make decisions to stay competitive in their field. This means there is a large demand for people with the skills to make sense of that data.

Having data is useless without meaning. The ability to create reports that result in better understanding and therefore drive effective decision-making is in high demand. Businesses want to maximize the value of their data.

Power BI Desktop is the best tool for self-service business intelligence and analytics. This free tool makes it easy to acquire, shape, model, and present data in an effective and interactive way.

The Power BI Service then provides a cost-effective way to share these reports with other members of your team or with management.

Learning Power BI will give you the edge over others who still use over-priced, rigid, and limited tools. The Microsoft data platform is the leader in the analytics and BI market.

xxviii

This book will demonstrate the demand for data analytics skills by businesses today, where you can find work, and what employers will expect from you.

It then introduces you to the different tools that form Microsoft Power BI. No prior knowledge is required. This is a comprehensive beginner's guide to Power BI.

Notation

You can expect the following notation in this book.

- The name of a button, keystrokes will be written in Italics. For example, press *Enter*.
- Tab of the Ribbon that we click will be written as Calibri +Font 12 + Bold text. For example, click the **Modelling** tab of the Ribbon.
- Titles and other text that you see on screen and referenced in the book will be written as Calibri +Font 12 + Bold. For example, in the **Merge** window.
- Names of tables, queries, and pages will be shown as Consolas + Font 10 + bold. For example, select the **Products** table.
- Names of fields, columns, and measures will be shown as Consolas + Font 10 + bold . For example, click on the **No of Staff** column.
- Written text will be written as Consolas + Font 10 + Bold. For example, type **Total Revenue** in the name box.

Download the example files

You are encouraged to download the example files used by me throughout the book to practice on. The best way to learn is to follow along and practice the techniques with me. This will benefit your learning greatly.

You can download the example files from the GitHub link.

The files are organized into folders that match the chapters of this book.

CHAPTER 1 Why Learn Power BI?

Introduction

Power BI is quite simply the best self-service BI platform. It is a service for data acquisition, modeling, and reporting. It is easy to learn, is in large demand by employers, and is updated regularly.

Power BI is updated every month, so it is continually getting more powerful, easier to use and takes advantage of advancements in technology. This makes it a very exciting time to start using Power BI if you are seeking a job in business intelligence or data analysis.

In this book, we will learn how to use Power BI effectively, and you will see how easy and fun it can be.

Structure

In this chapter, we will cover the following topics:

- View data that supports the demand for Power BI skills
- Hear from current BI professionals on the importance of PBI

Objectives

After reading this chapter, you will be able to know why you should learn Power BI. You will see data that supports the demand for Power BI skills from popular job sites and other places that you can find work for Power BI.

You will see impartial evidence that Microsoft is the leader in analytics and business intelligence platforms.

And you will also hear from current professionals who work in the BI consultancy or in the recruitment of analysts and other BI professionals.

Gartner Magic Quadrant 2022

In March 2022, Microsoft was recognized as a leader in the Gartner Magic Quadrant for Analytics and Business Intelligence Platforms (*figure 1.1*).

They have been named as a leader for 15 consecutive years. This is the fourth year that they have been positioned the furthest to the right for the completeness of vision and the furthest up for their ability to execute. Please refer to the following figure:

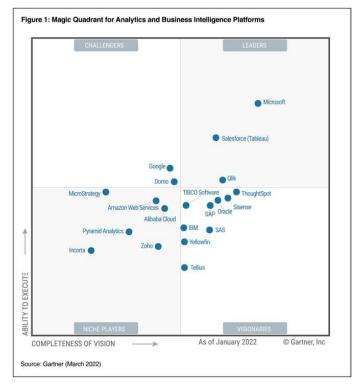


Figure 1.1 Gartner Magic Quadrant showing Microsoft as an ABI leader

This impartial view of different business intelligence platforms provides the confidence that Microsoft's ecosystem of tools and online services is a leader in this landscape.

Although Power BI is not solely responsible for this position in the quadrant, it is a key reason.

Gartner evaluates the quadrant across 15 categories, including data source connectivity, data preparation, data visualization, natural language query, and reporting.

You will see as you progress through this book that Power BI performs highly in all these categories.

Demand for Power BI skills

The demand for Power BI is very strong and is growing year-on-year.

Whether you are looking for a permanent position or contract work, full-time or as a side gig, there are opportunities for you.

A quick search for jobs confirms this demand.

Figure 1.2 shows a search on LinkedIn UK for jobs using the keyword *Power BI*. It returned 4,122 results. Please refer to the following figure:

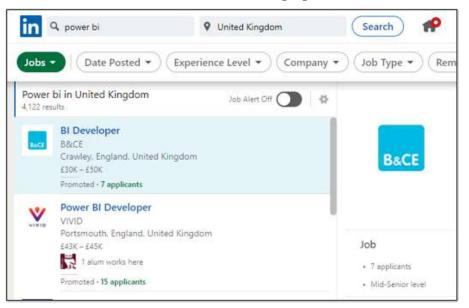


Figure 1.2: Power BI jobs at LinkedIn UK

These results can be filtered by date, location, and experience level, and you can even specify to return roles where you can work remotely.

Figure 1.3 shows a search on Naukri.com, India's No.1 job site, for jobs with the keywords Power BI and data analyst. This search returned 11,931 results.

This search is set to any experience level. So, if you are an entry-level BI analyst or developer, this could be set to 0 years to find the appropriate role. Please refer to the following figure:

(naukri.cor	<u>1081</u>	RECRUITERS COMPANIES TOOLS SERVICES MORE LOON	
Q Showing jobs for	r 'power bi, data ar	habyst' Modify 🥒	
👻 All Fêters		1 - 20 of 11831 Power III, Data Analyst Jobs 🖉 Sort by	Relevance
Freshness	Select +	Data Analyst / Power Bl / Master data Management (rotational shift)	(0)
ML 550		Bureau Veritas India Port Ltd - 3.0 • (430 Reviews) © 2-7 Vis. # 200,000-7,00,000 PA, © Murreau (Al Areas)	in the
Location	181	Minimum expectation of a Bactwicks degree in Computer Science, Commerce, Business, MIS.	
Bangalore/Bengalu	nu (3552)	Power Br Sales Operations - Data Analyst - Tableau - SQL - Customer Relationship -	
Delhi / NCR (2329)		Power Bi + Sales Operations + Data Antalyst + Honesd + Sub, + Customer Helstonship +	
Mumbai (All Areas)	(1542)	W HOT JOB O FEW HOURE ABO	th Save
Hyderabad/Secund	erabad (1990)		
+ 21 More -		Power BI Developer/Data Analyst/Data Engineer	
		Content Bloom	
Salary		2-7 Vm R Not dactosed S Node	
0-5 Lakhs (1668)		Willingness to pitch in and wear offlerent hats occasionally (figuratively, and maybe L.	
□ 3-6 Lukhu (4936)		Computer science - Data analysis - Automation - Consulting - CMS - PLSQL - power bi	
0-10 Lakhs (6860)		0 1 1471 460	the face
		0 4 400 8 400	or blue
10-15 Lakhs (4873)	ų		
+ 5 More +		Data Analyst - Power Bl	
		Vanguard Talent Hub	
Experience		🗂 3.7 Vrs 🕴 Not disclosed 🛇 India	
	0	Must Have skills: - 2+ years of experience in Power Bi and DAX its a remote working opp	
		Business Intelligence + DAX Power BI + Power BI + SSRS + Data Services + Data Anarytica	- 301.
21/19	(Arty)	# HOT JOB 0 12 DAYE 400	र्पर Save

Figure 1.3: Power BI data analyst jobs at Naukri.com

This next search is on the website of Nigel Frank International, a global leader in Microsoft Recruitment (*figure 1.4*).