

Power BI

GoSkills online course syllabus

Thursday, May 1, 2025

Skill level

Beginner

Lessons

42

Pre-requisites

None

Estimated study time

20h for all materials

Instructor

Ken Puls

What is Power BI?

- 1** **Introduction to Power BI**
An introduction to Power BI and the problems it solves for us.
- 2** **Overview of Power BI Components**
An overview of the components that make up Power BI, and their costs.
- 3** **Power BI Workflow**
A review of the Power BI workflow

Getting Started with Power BI

- 4** **Getting Data from a Text File**
Using Power BI to import data from a text (or CSV) file
- 5** **Creating Visuals**
Creating visuals in Power BI
- 6** **Publishing to the Power BI service**
Publishing reports to the Power BI web service
- 7** **Dashboards vs Reports**
An explanation of how Power BI defines reports and dashboards
- 8** **Working with Q&A**
Using Q&A to ask the database for information

9 Generating Quick Insights

Working with Quick Insights

10 Working with Alerts

Setting and managing alerts for your data

11 Sharing Reports and Dashboards

Sharing Power BI Reports and Dashboards

12 Named Workspaces

Named Workspaces

13 Sharing via Apps

Sharing via Apps

Data & Modeling

14 Collecting More Data

Working with Excel data in Power BI

15 Key Concepts for Relating Data

Key concepts you should know before relating data

16 Solving m2m Joins via Bridge tables

Creating Bridge Tables in order to link tables via one to many relationships

17 Solving m2m Joins via Composite keys

Creating composite keys in order to link tables via one to many relationships

18 Solving m2m Joins via De-Aggregation

Creating new tables in order to link tables via one to many relationships

19 Table De-Aggregation - Application

Creating new dimensional tables for our sample model

20 Dynamic Calendars - Theory

How to create a dynamic self-updating calendar for your model

21 Dynamic Calendars - Application

Building a dynamic calendar for our sample model

Working with DAX (Power BI's formula language)

22 Basic Measures - Theory

How and why you should create explicit measures in Power BI

23 Basic Measures - Application

Creating measures for our sample model

24 Understanding Measure Calculation

Understanding how the DAX engine calculates measure results

25 Performing Math with Compound Measures

How to perform math against pre-defined measures

26 The CALCULATE() function - Theory

Understanding CALCULATE(), the most powerful function in DAX

27 The CALCULATE() function - Application

Creating measures for our sample model using CALCULATE()

28 The ALL() function - Theory

Removing Filters with the ALL() function

29 The ALL() function - Application

Creating measures for our sample model using ALL()

30 Quick Measures

Using quick measures for time intelligence

Exploring Visuals

31 Global Visual Concepts

Concepts applicable to all visuals

- 32 Bar & Column Charts
Working with Bar and Column charts in Power BI
- 33 Line & Area Charts
Working with Line charts in Power BI
- 34 Combination Charts
Building Combination charts in Power BI
- 35 Maps
Working with Maps, Azure Maps and Filled Maps in Power BI
- 36 Pie Charts
Working with Pie and Donut charts in Power BI
- 37 Treeview
Working with Treeview visuals in Power BI
- 38 Cards
Working with Cards and Multi-row Cards in Power BI
- 39 Matrix
Working with Matrix visuals in Power BI
- 40 Tables
Working with Table visuals in Power BI
- 41 KPIs
Working with KPIs in Power BI
- 42 Custom Visuals - Chiclet Slicer
Working with custom visuals in Power BI