

# Power BI Basics

## (2 days)

### Power BI Basics (2 days)

#### Course description:

Power BI is a new data modeling and visualizing tool to query, model and visualize data in a way that you can't even imagine. Power BI Desktop app is free to download and use and with that you can combine data from different data sources into one huge data model. You can create custom calculations inside the data model and eventually create reports including different rich visualizations. Power BI reports are interactive and easy to use. If you want to share your reports with your colleagues, then report can be published to PowerBI.com cloud service.

#### Target audience:

Data analysts and basically everyone who is interested in data modeling and reporting with Power BI.

#### Material:

Electronic material

#### Instructor:

Petteri Sjöholm

### Course Program

#### DAY 1:

- **Overview of Power BI**
  - Hardware and software requirements
  - Data modeling and reporting process in Power BI
- **Creating data model in Power BI desktop**
  - Importing data from external sources
  - Editing imported data in Power Query
  - Creating relationships between tables
- **Introduction to DAX (Data Analysis Expressions)**
  - DAX data types and operators
  - Calculated columns and fields (measures)
  - Evaluation contexts
    - Row context
    - Filter context
  - Time Intelligence
    - Creating time dimension table
    - Time based calculations using time intelligence functions

## DAY 2:

- **Visualizing data in Power BI desktop**
  - Report page settings
  - Overview of Power BI visualizations; charts, tables, scorecards, maps etc.
  - Adding visualizations, modifying settings, layout and filtering
  - Adding visualizations from Appsource
  - Publishing report to PowerBI.com
- **Overview of using PowerPivot reports in SharePoint**
- **Publishing reports and overview of PowerBI.com**
  - Publishing from Power BI Desktop to PowerBI.com
  - Reading, editing and sharing reports in PowerBI.com
  - Embedding Power BI reports into SharePoint page
  - Refreshing data from data source

More information about the course

Power BI is a new data modeling and visualizing tool to query, model and visualize data in a way that you can't even imagine. Power BI Desktop app is free to download and use and with that you can combine data from different data sources into one huge data model. You can create custom calculations inside the data model and eventually create reports including different rich visualizations. Power BI reports are interactive and easy to use. If you want to share your reports with your colleagues, then report can be published to PowerBI.com cloud service.

You can find more information about Power BI from <http://www.powerbi.com>

Participants must have Power BI Desktop installed on their computer. It can be downloaded from the Microsoft Store or from the link <https://www.microsoft.com/en-us/download/details.aspx?id=58494>. All training materials provided by Sovolto will be distributed during the training.

More information about the course in Finnish

Power BI on uusi työkalu tiedon mallintamiseen ja visualisointiin. Sen avulla voit noutaa data tietolähteistä, yhdistää, mallintaa ja visualisoida valmiiksi raporteiksi tavoilla, joita et osaa edes kuvitella.

Power BI Desktop on vapaasti ladattava työpöytäsovellus, jonka avulla voit yhdistää data eri tietolähteistä yhdeksi suureksi tietomalliksi. Voit suorittaa mukautettua laskentaa tietomallin sisällä ja lopuksi tuottaa raporteja näyttävillä visualisoinneilla. Power -raportit ovat interaktiivisia ja helppokäyttöisiä. Jos haluat jakaa raportin esimerkiksi kollegoillesi, niin voit julkaista sen PowerBI.com-pilvipalveluun.

Löydät lisää tietoa Power BI:stä osoitteessa <http://www.powerbi.com> .

Power BI kursseilla osallistujilla pitää olla koneellaan asennettuna Power BI Desktop. Sen voi ladata Microsoft Storesta tai oheisesta linkistä <https://www.microsoft.com/en-us/download/details.aspx?id=58494>.

Kaikki koulutuksen aikana käytettävä Sovelton toimittama harjoitusaineisto ja koulutusmateriaali jaetaan koulutuksessa.