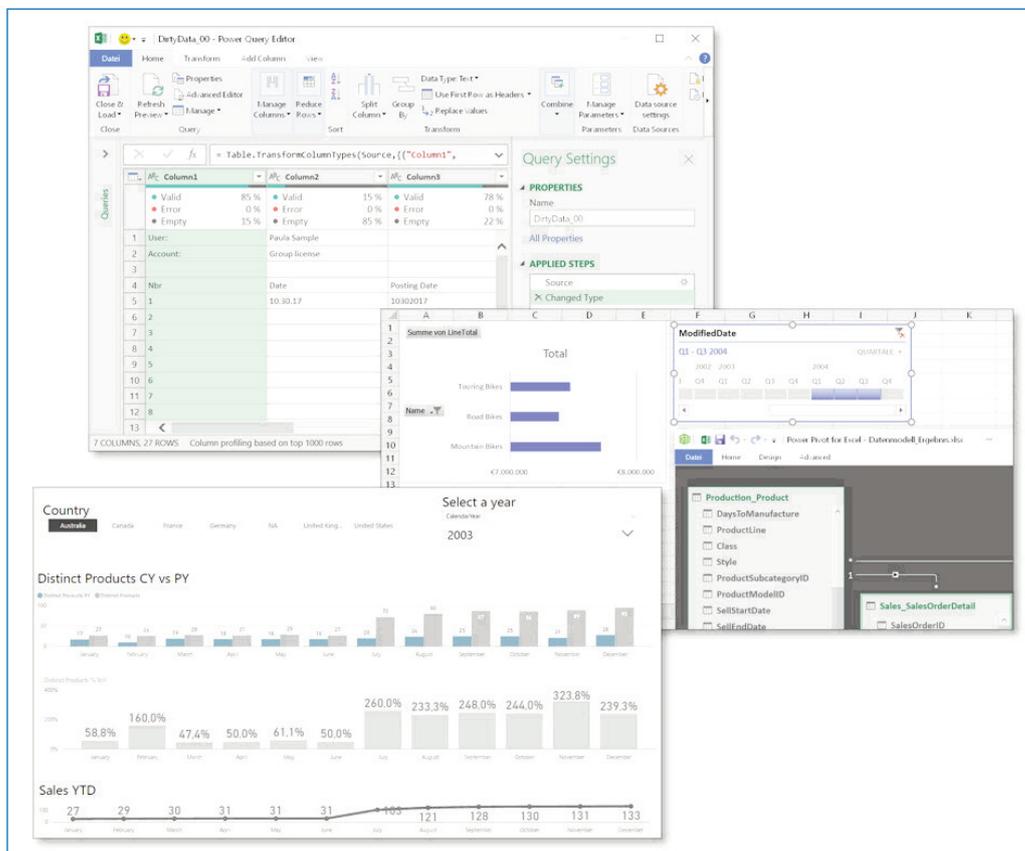# Exbase
Center of Excellence

ONLINE TRAINING
MAX.
8 PERSONS

Power Query and Power Pivot
An Introduction to Power BI with Excel

- **Data Cleansing: Correcting Errors, Editing Formats and Values**
- **Fast and Reliable Data Modelling without VLOOKUP()**
- **DAX-Functions to Simplify and Advance Data Analyses**
- **Time Intelligence: Managing Time-Related Comparisons**
- **Interactive Data Visualisation in Power BI Desktop**

Trainer: Stephan Nelles

One of the leading experts in Power BI and author of well-known reference books concerning Controlling with Excel and Power BI.

Please let us know, if you are interested in an individual inhouse- or online-training. We can offer you programmes according to your preferences ranging from basic to advanced techniques in Excel and Power BI Desktop. (Contact: info@exbase.de)

COURSE DESCRIPTION

With Power BI in Excel you can convert your Controlling to a much more efficient level. This course provides a profound introduction.

The participants of this online-training learn how to transform raw data into dynamic data models and dashboards. Based on practical examples, you'll acquire work techniques ranging from data cleansing over data modelling to powerful DAX-functions for data analysis and visualisation.

SESSION I

Introduction to Power BI

Power Query

The Data Cleansing Process

- Accessing various data sources (CSV, SQL, data bases)
- Correcting typical data errors
- Editing data formats and replacing values and errors

  Coffee Break (30 Minutes)

Advanced Functions to Edit Data

- Edit commands and insert additional commands
- Encoding data for later relationships between tables of the data model
- Organise, combine and merge queries

SESSION II

Power Pivot

Basics in Data Modelling

This part of the course communicates the steps to connect data tables from various sources. You'll also learn how to exclude data (filter, hide etc.) and how to add additional calculations.

- Loading data into a data model
- Creating and adding dimension tables
- Establishing logical relationships between tables
- Editing of relations and updating data models

  Coffee Break (30 Minutes)

DAX-Functions for Data Aggregation

- Calculating KPI with DAX-measures
- Differences between implicit and explicit measures
- Applying DAX functions as calculated columns
- Important functions to aggregate data in tables
- Working with slicers and timelines in Power Pivot Reports

SESSION III

Conditional Calculations in Reports

- Overriding the filter context with CALCULATE()
- Manipulating the filter context with ALL(), ALLEXCEPT() and FILTER()

  Coffee Break (30 Minutes)

Shares of Overall Results and Ratios with DAX Functions
- Calculating ratios with basic aggregations and DIVIDE()
- Calculating shares of characteristics of an overall result

SESSION IV

Time Intelligence
Time Intelligence Functions are the most powerful tools to generate time related data analysis.
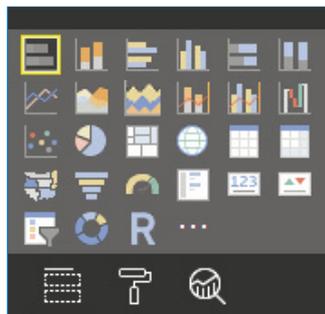
- Integration of calendars
- Year-to-date-calculation based on a standard calender
- Year-over-year-analyses of data series

  Coffee Break (30 Minutes)

Power BI Desktop

Interactive Data Visualisation and User-Defined Reports
- Choice and application of different visuals
- Filtering visuals and pages
- Integrating drill-throughs in report pages
- Using bookmarks

FURTHER INFORMATION

Stephan Nelles is a well-known Excel trainer, consultant and developer of Power BI-Tools. His area of expertise includes basic and advanced techniques to master data from import over data modelling to the presentation of results with dynamic reports and high-quality dashboards. Over the last 10 years Stephan Nelles trained a few thousand people at more than 500 booked training days. Among Excel- and Power-BI-Users he is renown for his books „Excel im Controlling" and „Power BI with Excel".

Course Material: All participants get a documentation with explanations and screenshots as well as the data files (tasks and solutions). With the help of the course material participants are able to recollect the workshop and design solutions of their own.

The training consists of 4 sessions:

April-Training 2023	Nov./Dec.-Training 2023
17th of April, 09:00-12:30	08th of Nov., 13:00-16:30
18th of April, 09:00-12:30	09th of Nov., 13:00-16:30
24th of April, 13:00-16:30	04th of Dec., 09:00-12:30
25th of April, 13:00-16:30	05th of Dec., 09:00-12:30

The participation fee is EUR 1.500,00 plus tax. You can register online **here** or via E-Mail at **info@exbase.de**.

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