



PowerPivot za Excel 2010 Workshop

– Dajte smisao Vašim podacima –

20-22. jun 2016.

Privredna komora Beograda, Kneza Miloša 12 sala III
na trećem spratu, u periodu od 9⁰⁰-16⁰⁰ časova.

DNEVNI RASPORED PREDAVANJA:

PRVI DAN

8:45 – 9:00	Registracija učesnika
9:00 – 10:30	Otvaranje treninga Predavanje
10:30– 11:00	Pauza
11:00 – 12:30	Predavanje
12:30 –13:30	Pauza za ručak
13:30 – 15:00	Predavanje
15:00 – 15:15	Pauza
15:15 – 16:00	Predavanje

DRUGI DAN

9:00 – 10:30	Predavanje
10:30– 11:00	Pauza
11:00 – 12:30	Predavanje
12:30 –13:30	Pauza za ručak
13:30 – 15:00	Predavanje
15:00 – 15:15	Pauza
15:15 – 16:00	Predavanje

TREĆI DAN

9:00 – 10:30	Vežbe
10:30– 11:00	Pauza
11:00 – 12:30	Vežbe
12:30 –13:30	Pauza za ručak
13:30 – 15:00	Pitanja i odgovori i dodela uverenja

Organizator: Privredna komora Beograda - Centar za edukaciju, Udruženje informatičke delatnosti



PowerPivot training outline

- **Introduction**
 - What is PowerPivot?
 - What is a PivotTable?
 - Example with classical Excel PivotTable
 - First Steps with PowerPivot
 - Example with PowerPivot
- **Basic PowerPivot Concepts**
 - Formatting Numbers
 - Handling Technical and Useless Columns
 - Understanding Calculated Columns
 - Using Lookup Tables
 - Understanding Calculated Fields
 - Handling Many Tables
 - Refreshing Data
 - Using Slicers
- **SharePoint Integration**
 - PowerPivot for SharePoint
 - PowerPivot Gallery
 - Publishing an Excel Workbook
 - Parameters Pane
 - PowerPivot Data Refresh
 - Data Connections
 - User Credentials
- **Power View**
 - Creating a Power View Report
 - Inserting New Views in Power View
 - Type of Charts & Maps
 - Applying Filters to Power View Reports
 - Creating Tiles
- **Shaping Reports**
 - Defining KPIs
 - Creating Hierarchies
 - Properties for Power View Reports
 - Named Sets in Excel
 - Using Perspectives
 - Drillthrough with PowerPivot
- **Loading Data and Models**
 - Understanding Data Connections
 - Different Kind of Connections
 - Using Existing Connections
 - Loading Tables from SQL Server
 - Filtering Options
 - Loading and Detecting Relationships
 - Loading from Views
 - Loading from Access
 - Issues in the Query Designer
 - Best Practices
 - Loading Data from Analysis Services
 - The MDX Query Designer
 - Handling of Keys in SSAS
 - OLAP cube or DataMart?
 - Using Linked Tables
 - Loading from Excel Workbooks
 - Loading from Text Files
 - Using the Schema.INI configuration
 - Using Copy & Paste Operations
 - Loading From Data Feeds
 - Reporting Services Reports
 - Internet Data Feeds
 - Windows Azure Data Market
 - Loading From SharePoint
- **Understanding Data Models**
 - What is a Data Model?
 - Why PowerPivot Users need Data Modeling?
 - Physical and Logical Data Models
 - Normalization and Denormalization
 - Empty and Default Values
 - Understanding How and When to Denormalize
 - SQL Query Designer as a Data Modeling Tool
 - Different kinds of Joins
 - Setting Relationship Manually
 - Understanding OUTER Joins



- **Introduction to DAX**
 - Calculation Foundations
 - DAX Data Types
 - DAX Operators
 - Calculated Columns Examples
 - Calculated Fields Examples
 - Introduction to the Execution Context (Row and Filter)
 - Choosing Between Calculated Columns and Calculated Fields
 - Handling Errors in DAX
 - Common DAX Functions Examples
 - Statistical and Logical Functions
 - Information Functions
 - Mathematical Functions
 - Text Functions
 - Date and Time Functions
- **Table Functions and CALCULATE**
 - Filtering Table with FILTER
 - Mixing ALL and Other Filters
 - Use of RELATEDTABLE
- CALCULATE Examples and Relationships
- **Time Intelligence in PowerPivot**
 - Why a Calendar Table is Useful
 - Attribute Consolidation
 - Common Calendar Calculations
 - Creating a Calendar Table with Excel
 - Excel Tips to Create a Calendar Table
 - Working Days Calculation
 - Common Calendar Calculations
 - X To Date (YTD, QTD, MTD)
 - Same Period Last Year
 - Other Custom Aggregation Function
 - Delta Over Previous Year
- **Basic DAX Patterns**
 - Banding in PowerPivot
 - New and Returning Customers
 - Compare Budget and Sales
 - Many-to-Many Relationships
 - Merge Values from Different Tables
 - ABC / Pareto Analysis

PowerPivot Workshop FULL outline:

- **All the contents from the BASIC version**
- **Understanding the Evaluation Context**
 - What is the Row Context
 - What is the Filter Context
 - Filter Context on a Single Table
 - Updating Filter Context on a Single Table
 - Evaluation Context in Detail
 - Filter Context + Row Context
 - Updating the Filter Context
 - Restricting and Enlarging the Context
 - Transform Row Context into Filter Context
 - The EARLIER and EARLIEST Functions
 - What is the EARLIER Function
 - Using EARLIER and EARLIEST Functions
 - Evaluation Context And Relationships
 - Row Context for Multiple Tables
 - Filter Context for Multiple Tables
 - Updating the Filter Context with Relationships
- **CALCULATE**
 - Introduction to Calculate
 - Examples of CALCULATE
 - Detailed Analysis of CALCULATE Behavior
- **Advanced DAX Techniques**
 - Statistical Functions
 - Ranking Over a Calculated Fields
 - Using KEEPFILTERS
- **Advanced Time Intelligence**
 - Semi Additive Calculated Fields
 - Closing Balance Over Time
 - OPENINGBALANCE/CLOSINGBALANCE
 - Event in Progress Calculation
 - Calculation Over Weeks
- **DAX as a Query Language**
 - EVALUATE syntax
 - Using SUMMARIZE and ADDCOLUMNS
 - Using GENERATE
 - Creating linked back tables
- **Advanced DAX Patterns**
 - Inside Many-to-Many Relationships
 - Basket Analysis
 - Currency Conversion