Course code: MSEXNL

Who is the course forTraining for all Excel users with advanced knowledge and experience (Excel 3), who want to use Excel more efficiently in combination with other applications, with main focus on PowerPivot. Suitable training for business users, who need to perform advanced analysis in Excel and create reports. Everything without programming. Required skillsGood knowledge of MS Excel in the scope of MSEX313 course. Basic knowledge of databases concepts are suitable, but not required.
Teaching methodsProfessional explanation with practical samples and examples.
Teaching materialsPowerPoint handouts
Course outline PowerPivot addin   Purpose of addin   Introduction   Technical limits Excel Datamodel   Building blocks   fact tables   dimensions   KPI – Key Performance Indicators   hierarchies   parent-child, recursive   intertable hierarchy   time, geographic, product, …   Relations   datamodel accessing   Family of CUBE functions   linked tables   basic DAX functions   DAX functions structure, rules   comparison to Excel worksheet functions   Family of Path functions   RELATED, RELATEDTABLE   LOOKUPVALUE   Measures – aggregations
 Power Query addin   Purpose of addin   Introduction   Technical limits Datasources   File data sources   Textfiles TXT, CSV, PRN, XML   Excelu workbooks   DB files (Access, DBF, …)   Web queries   Filesystem, reading of all files in folder   Custom Query functions   Introduction to M language   Data manipulations   Text values operations   Datetime values operations   Data cleanup   Unpivot tool   Merge and append queries

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Required skills

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Course outline

- **PowerPivot addin**
- Purpose of addin
- Introduction
- Technical limits
- Excel Datamodel
- Building blocks
- fact tables
- dimensions
- KPI – Key Performance Indicators
- hierarchies
- parent-child, recursive
- intertable hierarchy
- time, geographic, product, …
- Relations
- datamodel accessing
- Family of CUBE functions
- linked tables
- basic DAX functions
- DAX functions structure, rules

- comparison to Excel worksheet functions
- Family of Path functions
- RELATED, RELATEDTABLE
- LOOKUPVALUE
- Measures – aggregations
- **Power Query addin**
- Purpose of addin
- Introduction
- Technical limits
- Datasources
- File data sources
- Textfiles TXT, CSV, PRN, XML
- Excelu workbooks
- DB files (Access, DBF, …)
- Web queries
- Filesystem, reading of all files in folder
- Custom Query functions
- Introduction to M language
- Data manipulations
- Text values operations
- Datetime values operations
- Data cleanup
- Unpivot tool
- Merge and append queries

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