



TAN DUC INFORMATION TECHNOLOGY SCHOOL JSC

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Let's Reach For Excellence!

Microsoft Excel 2016: Online Analytical Processing (OLAP)

Duration: 02 days

Your Excel skills are now very advanced and would already be regarded as expert level by any employer. The concept presented in this course are not commonly found in Excel users (even IT professionals often struggle with data modeling and OLAP concepts)

This course that follows is of necessity more complex than in the previous courses. This is because, in order to use new Excel OLAP-related tools, you will first need to acquire a substantial amount of relational database theory. All of this theory is gradually introduced in the following three OLAP-related sessions as you explore each new tool's features.



COURSE OUTLINE

Session 1: Data Modeling, OLAP and Business Intelligence

- Import tables from an external relational database
- Understand primary and foreign keys
- Link primary and foreign keys using VLOOKUP
- Efficiently import data using a view
- Understand linked tables
- Work with big data
- Create a simple data model
- Understand OLAP pivot tables
- Understand OLAP cubes and Business Intelligence
- Create an OLAP pivot table directly from a relational database
- Understand many-to-many relationships
- Create an OLAP pivot table using a many-to-many relationships
- Understand MDX queries and OLAP pivot table limitations
- Use the CUBEVALUE function to query an OLAP cube
- Convert CUBEVALUE functions to include MDX expressions
- Create an asymmetric OLAP pivot table using Named Sets\

Session 2: 3D Maps

- Create a simple 3D Maps
- Confirm the accuracy of geocoding
- Map using different location fields
- Apply filters to a 3D Map
- Set layer options and customize data cards
- Add a height field to a layer
- Apply different visualization types
- Visualize multiple categories
- Create a visualization with multiple layers
- Add annotations
- Create a video from temporal data
- Set scene options
- Create a tour with multiple scenes

Session 3: Create get & Transform queries

- Understand Get & Transform and ETL
- Create a simple extract and load web query
- Understand queries and connections
- Move, remove, rename, filter, and sort columns
- Split delimited data

- Specify data types
- Understand steps and PQFL
- Remove empty, error and top and bottom rows
- Understand and work with null values
- Transform date and time columns
- Transform number columns
- Add a custom calculated column
- Create an aggregated data query
- Unpivot aggregated data
- Work with multiple queries
- Create an append query
- Understand normal and de-normalized data
- Create a simple two-table merged query
- Create a five-table merged query