Rich Malloy, NCC Extended Studies

Session 4:
Advanced Excel 20116

MACROS AND DASHBOARDS

REVIEW

The Advantage of Power Pivot Is That it …

A. Can analyze millions of rows of data

B. Can handle multiple related tables

C. Offers new powerful functions

D. All of the above

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TRUE

The Data Model in Power Pivot:

A. Enables you to link huge tables together

B. Can be accessed from within Excel

C. Can be accessed from within Power Pivot

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The advantage of dividing a large "flat file" database into two or more smaller tables is that:

A. It reduces storage requirements

B. It reduces redundancy or duplication

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Agenda

- Review
- Macros
- Array Formulas
- 3D Maps Chart
- Interactive Dashboard
- Power View Dashboard
- Solver
- Valuable Free Gift!

Macros

- Short for: "Macro Commands"
  - Several commands combined into one
- Can be recorded
- … and played back

Not Mackeral

Developer Toolbar

- Used to create and edit macros
- Normally hidden from users

Form Controls

Various tools to aid data input:

- Buttons
- Checkboxes
- Slidebars
- Text boxes
- List boxes
- Combo boxes

VBA Editor

- Tool for editing macros
- Automates repetitive tasks
- VBA: Programming language
  - VBA = Visual Basic for Applications
  - Also available in Word

2 Ways to Store Macros

- In a Workbook
  - Must be saved as a Macro-Enabled Workbook
  - E.g., invoice.xlsm
- On your PC
  - In your Personal Macro Workbook
  - Normally hidden

Array Formulas

- Interacts with several cells at once

- Magic key combination:
  - Not: Enter
  - But: Ctrl + Shift + Enter

3D Maps Chart

- Shows geographical data in 3D

- Examples: Sales for Each State

Interactive Dashboard

- Lets executives focus on key variables

Power View Dashboard

- Lets executives focus on key variables with "power tools"

Solver

- Finds best combination of several variables to solve a problem