

Rapid Report Generation

Fabulous Formulas & Mini Macros

Objective

• To generate a set of reports related in content

Constraints

- The data set has one or two fields which will differentiate each report from the others
- If using the report solution with different data sets, adjustments will be necessary if each field is not ordered and formatted as they were initially
- You are only limited by your imagination, RAM and 17,179,869,184 cells per sheet.

Overview

One-Two Approach:

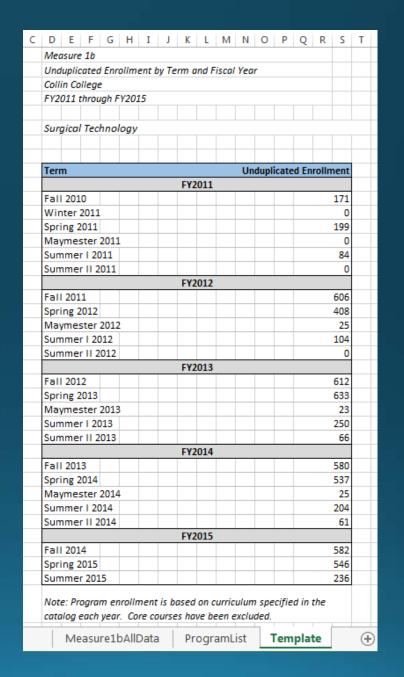
Formula-Oriented Template

Macro



The Fixed-Row Formula Template

- Simple
- Fewer variables
- Be sure to save as macro-enabled workbook (.xlsm)





Formula Tips

- VLOOKUP/HLOOKUP
 - Orient data with a unique lookup field on the left
 - Unique lookup field should consist of combination of elements appearing on template
 - Allow intermediary table to translate your values

• IFERROR

 Accounts for values absent from your data set during VLOOKUP

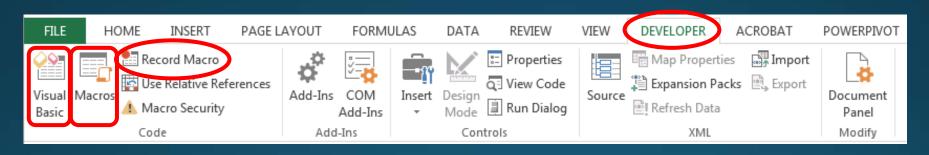
• **IF**

For complex criteria

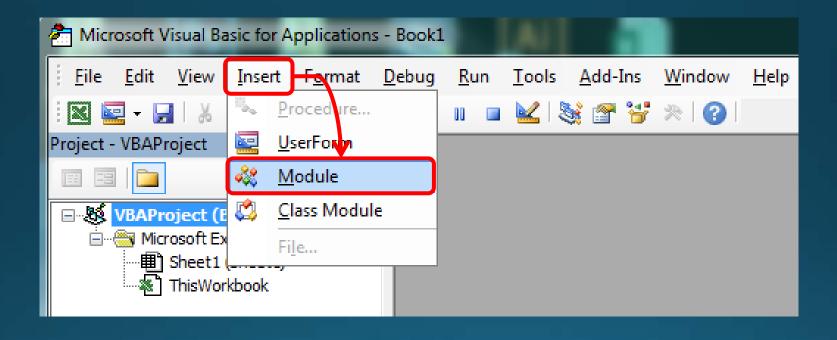


Accessing the Macro/VBA Menus

Add the Developer tab to the ribbon in Excel: File tab -> Options -> Customize Ribbon Check "Developer" on the right



Adding a Module Sans Recorder



Vital Macro Components

- Variable declaration
- Cell & range interaction
- Variable assignment
- Looping
- Output



Macros: Variable Declaration

Dim Variable As

- Integer
- String
- Boolean
- Currency
- Date
- Long
- Single

Macros: Cell & Range Interaction

- Single Cell Selection:
 - Range("A1").Select
- Multiple Cell Selection:
 - Range("A1:D4").Select
- Syntax structure is similar for most tasks

Macros: Variable Value Assignment

- Handled through use of the equals (=) sign
- Depending on variable type:
 - Literal Assignment
 - Assignment From Cell Value
 - Combination of Literal and Other Variables
 - Variables and Mathematic Modifications



Macros: Looping

- For... Next
 - Incremental/decremental structure
- Do While... Loop
 - Conditional loop, tests before executing
- Do... Loop While
 - Conditional loop, always executes at least once



Macros: Output

Recommended Options:

- Exporting to Adobe Acrobat PDF
- Printing*

Alternative Output Option:

Save As Excel Workbook

*Use with care!

Opportunities for exploration

- Conditional formatting!
- Graphs!
- Variable-length reports!

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