Use of CAPI for agricultural surveys

Advanced Designer Topics

*Demonstrative, not instructional
Overview

• Macros
• Look-up tables
• Variables
• Patterns for Text Questions
• Preloading long-lists of options
• Cascading options
• Randomization
Macros

• What is it?
  – Macros simplify writing complicated expressions with repetitive sub-expressions. You make define parts of the expression and then link them. They can be used in validation and enablement conditions.
Macros

• Example: Let’s say you are conducting an employee survey and want to enable certain questions based on certain characteristics of the worker. For example, let’s say you want to ask some questions for public sector workers, that are female, and of child-bearing age. You could create 1 long enablement condition or split it up and define a macro.
Macros

How to do it

• So you select $m$ -> add new macro, and define individual macros.

• Then you can insert $c$ && $worker$ && $publicSector$ as an enablement condition.
Look-up tables

• What is it?
  – **Lookup tables** are reference tables that may be used in validation and enabling conditions. They are prepared as external tab-delimited files and uploaded to the questionnaire in the Designer.

• Examples of possible application:
  – Crop yields by crop
  – Salary ranges by occupation
  – Price ranges for certain products
Look-up tables

How to do it

• Select book looking icon
• Upload table
Variables

• What is it?
  – Variables are created kind of like questions, but are actually derived from the answers to other questions. They do not appear in the questionnaire, but do appear in the final dataset.

• Examples of possible application:
  – Computing total number of hours worked if average per day, and # of days is asked
  – Compute yield if production, and area are asked
Invisible Variables

How to do it

• Select “Add Variable”
• Define it
Pattern for Text Questions

• What is it?
  – **Patterns for Text Questions** is used to define the structure of a text question or *string*.

• Examples of possible application:
  – Phone numbers
  – Flight numbers
  – Id codes
Pattern for Text Questions

How to do it

• Create text question, and define pattern.

<table>
<thead>
<tr>
<th>Examples</th>
<th>Represent</th>
</tr>
</thead>
<tbody>
<tr>
<td>~</td>
<td>Alpha character (A-Z,a-z)</td>
</tr>
<tr>
<td>#</td>
<td>Numeric character (0-9)</td>
</tr>
<tr>
<td>*</td>
<td>Alphanumeric character (A-Z,a-z,0-9)</td>
</tr>
<tr>
<td>###/###/######</td>
<td>Date</td>
</tr>
<tr>
<td>(###) ###-#####</td>
<td>Phone number</td>
</tr>
<tr>
<td>AA######</td>
<td>Flight number</td>
</tr>
<tr>
<td>~<em>-</em>###-####</td>
<td>Id code</td>
</tr>
</tbody>
</table>
What is it?
- It’s referred to “combo box” in the designer. Essentially it’s used to load long lists of categorical options with codes instead of entering them one-by-one.

Examples:
- Crops with codes
- Occupations with codes
Pre-loading long lists of options

How to do it

• Create .tab file
• Upload it.
Cascading Combo Box

• What is it?
  – Filters answer options based on the answer to previous question.

• Examples:
  – Select Region, and filter cities based on selected region
  – Select occupation category, then filter occupations
Cascading Combo Box

• How to do it:
  – Same as combo box, but w/ extra column specifying parent code
  – Mark “is cascading”
  – Specify parent
Use Random numbers

• What is it?
  – A random number is b/t 0 and 1 which can be used for randomized selection.

• Examples:
  – Random selection of hh member from roster
  – Random selection of employee from employee roster
Questions????