Rostering with Voxco

Methods, Syncing Across Modes, Extraction

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Topics

- Defining a Roster
- Setting up Rosters (Loops)
- Types of Rosters and When to Choose Which
- Considerations/limitations when fielding the same instrument in CATI and web
- Data Extraction Considerations
### Challenge Facing Programmers

- Q1: What is <PERSON1>’s age?
- Q2: What is <PERSON1>’s race?
- Q3: What is <PERSON1>’s weight?
- Q4: What is <PERSON1>’s height?

- Q5: What is <PERSON2>’s age?
- Q6: What is <PERSON2>’s race?
- Q7: What is <PERSON2>’s weight?
- Q8: What is <PERSON2>’s height?

- Q9: What is <PERSON3>’s age?
- Q10: What is <PERSON3>’s race?
- Q11: What is <PERSON3>’s weight?
- Q12: What is <PERSON3>’s height?
What is a Roster?

Programmatic tool allowing for the same questions to be repeatedly asked.
Voxco – Background Information

- Survey software platform
  - Web
  - Telephone

- Can field the same instrument in both environments and have data write to the same tables
### Establishing Rosters – Voxco CATI

#### Rosters

<table>
<thead>
<tr>
<th>#</th>
<th>Begin</th>
<th>End</th>
<th>Lines</th>
<th>Level</th>
<th>Parent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HH_START</td>
<td>HH_COLOR</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>BOOK_INDEX</td>
<td>BOOKS_MORE</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>DEST_START</td>
<td>DEST_END</td>
<td>7</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Number of rosters: 3
Roster and Non-roster Blocks

<table>
<thead>
<tr>
<th>Block</th>
<th>(2 questions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HH_ROSTER_BLOCK</td>
<td>(6 questions)</td>
</tr>
<tr>
<td>Block_2</td>
<td>(1 questions)</td>
</tr>
<tr>
<td>BOOK_ROSTER</td>
<td>(3 questions)</td>
</tr>
<tr>
<td>Block_3</td>
<td>(1 questions)</td>
</tr>
<tr>
<td>DESTINA_ROSTER</td>
<td>(6 questions)</td>
</tr>
<tr>
<td>Block_4</td>
<td>(2 questions)</td>
</tr>
</tbody>
</table>

Establishing Roster Block

When pushing a CATI survey to web, the roster structure and iteration detail transfers over.
Rostering Types

Q1 -> Q2
Q5 -> Q4
Q3

Q4

Q1 -> Q2
Q5
Q3

Q4

Exit Question
Favorable method when you can be confident that the respondent knows “how many”
- How many children do you have?
- How many cars do you have?

Favorable method when the maximum “how many” is limited by the question itself

Which of these places would you like to visit? Check all that apply
1, Paris
2, Australia
3, New Zealand
4, Ireland
5, London
6, Spain
7, Italy
Household Info

- How many people live in your household?
- What is the first name of the <second, third> oldest person in the household?
- How old is <NAME>?
- What is <NAME>'s favorite color?
- What was the total household income for 2018?
Household Info

- How many people live in your household?
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- How old is <NAME>?
- What is <NAME>'s favorite color?
- What was the total household income for 2018?
## Programming Example Spec: Setting Roster Iterations

Setting loop iterations prior to getting into roster block

<table>
<thead>
<tr>
<th>HH_NUM</th>
<th>How many people live in your household?</th>
</tr>
</thead>
<tbody>
<tr>
<td>○ 1</td>
<td></td>
</tr>
<tr>
<td>○ 2</td>
<td></td>
</tr>
<tr>
<td>○ 3</td>
<td></td>
</tr>
<tr>
<td>○ 4</td>
<td></td>
</tr>
<tr>
<td>○ 5</td>
<td></td>
</tr>
<tr>
<td>○ 6</td>
<td></td>
</tr>
<tr>
<td>○ 7</td>
<td></td>
</tr>
<tr>
<td>○ 8</td>
<td></td>
</tr>
<tr>
<td>○ 9</td>
<td></td>
</tr>
<tr>
<td>○ 10</td>
<td></td>
</tr>
</tbody>
</table>

HH_ROSTER_BLOCK (6 questions)
Checking to see if rostering should continue

Checking to see if roster line exceeds the answer given for persons living in household

HH_ROSTER_BLOCK (6 questions)

□ HH_START
Check if the next row \( R \) is > HH_NUM

2 Advanced Logic

Branch To: \( R > HH_NUM \) Branch To INCOME

Branch To: NOT \( (R > HH_NUM) \) Branch To +1
Setting fill based on iteration number

Setting substantive loop question fill from roster/looping iteration number
Book Reading

• What was the name of the <first, second, etc.> book you read this year?
• Have you read any other books this year?
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Specifying Maximum Loops/Iterations

We set the maximum number of loops to 10.
Establishing Fill

Setting the choice to the roster iteration number

- BOOK_INDEX
  - last
  - previous
  - previous
  - previous
  - previous
  - previous
  - previous
  - previous
  - previous

- **2 Advanced Logic**
  - **Pre-Load Actions**
    - **Set Variable Value**: \( \Rightarrow \text{BOOK_INDEX} = \$R \)
    - **Branch To**: Branch To 1
Substantive Questions and Potential Loop Exit

If no other books were read, respondent skipped out of the loop
Some versions of Voxco Online do not handle nested loops

Formatting differences exist between platforms
  – `<FILL>` versus `[FILL]`
  – Bolding, italicization, etc. doesn’t come over
Considerations When Pushing CATI Version to Web

May need to address some gremlins

- **Action**: Set Variable Value
- **Condition**: Add Advanced
- **Variable**: BOOK_INDEX
- **Value Type**: Formula
- **Formula**: $R$
- **Row**: [$ROW$]

- **Pre-Load Actions**
  - Set Variable Value: $\rightarrow$ BOOK_INDEX = $R$
Considerations When Extracting Data

- Voxco data are stored in SQL tables
- Response data for Voxco CATI and Voxco Online have the same structure
Considerations When Extracting Data: Non-technical Personnel
Considerations When Extracting Data: Non-technical Personnel

- Voxco CATI shows answers to DESTINATIONS under one variable/container.
- Voxco Online has a separate container for each possible answer.
Considerations When Extracting Data: Non-technical Personnel

- Voxco CATI: results displayed in question order

- Voxco Online: can display results in question or roster order

When the same survey is synched between Voxco CATI and Voxco Online, the extraction follows the Voxco CATI pattern