Michigan Questionnaire Documentation System (MQDS)

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Agenda

• MQDS Background
• MQDS current design
• Demo
Survey Lifecycle

http://ccsg.isr.umich.edu/
What is MQDS?

- The Michigan Questionnaire Documentation System (MQDS) was designed to extract comprehensive metadata from Blaise survey instruments and render it as an eXtended Markup Language (XML) document using the Data Documentation Initiative (DDI) standard.
MQDS Development Timeline

Version 1
- 2004
- BlaiseDoc

Version 2
- 2007
- .Net Programming

Version 3
- 2009
- Database driving and DDI 3.0 compatible

Version 4
- 2011
- Able to handle large data model and DDI 3.1 compatible

Version 5
- 2014?
- Able to work with Blaise 5 new structures and DDI 3.X compatible
MQDS V4: Import-Export-Transform (IET) Process Model

1. Import
   - User specifies input files (location, file type, etc.)
   - Blaise Datamodel (BMI)
   - Blaise Database (BDB)
   - Other File Types (e.g. SAS, SPSS, etc)
   - Database connection settings
   - DDI 3 elements not in *.bmi

2. Export
   - Relational DB
   - SQL Server / SQL Server Express
   - User specifies output files (location, Language/locale, XML output options, etc.)
   - XML (DDI 3)

3. Transform
   - User specifies stylesheet selection criteria, type of output desired (html, rtf, pdf), etc.
MQDS Main Menu
1. Import

- SQL Server / SQL Server Express
- Relational DB

User specifies Instrument Data & Metadata

- Blaise Datamodel (BMI)
- Blaise Database (BDB)
- Database connection settings
- Other File Types (e.g. SAS, SPSS, etc)
- Match Blaise Language Settings to ISO Language/locale
- DDI 3 elements not in *.bmi via Profiles

- Profiles
- Blaise Language Settings

- Import
- Import Summary Statistics and Frequencies
- Data file (*.bdib, *.boic, *.xml)

- QOIs and Support Database
- Help File (*.html)
- Support File (*.mdlb)

- Instance Information
- Instance ID:
- Description:

- Profile Creation & Selection
- User profile (*.xml)
- Instance profile (*.xml)

Denotes mandatory fields

Import Instrument Data and Metadata

Next  Exit
2. Export

User specifies DDI V3 Instance: output location, Fill names or resolved, formatted or unformatted, languages, etc.
3. Transform

User specifies DDI file to transform: output location, stylesheet selection criteria, output desired html, rtf, or pdf, etc.
Style-sheet Modification
HTML output example

We would like to know about your current employment situation as of today -- are you currently employed, self-employed, retired, sick or on maternity leave, a homemaker, a full-time or part-time student, or something else?

*ENTER all that apply

*Press [Space] or [-] to separate responses

- 1 Employed  GOTO GIT.Occupation
- 2 Self-employed  GOTO GIT.Occupation
- 3 Looking for work
- 4 Permanently disabled
- 5 Temporarily laid off
- 6 Unemployed
- 7 Retired
- 8 Sick or on maternity leave
- 9 Homemaker
- 10 Student
- 11 Other - specify
- DK DK
- RF RF

Maximum number of mentions: 11
Earlier in the interview, you mentioned having periods of time that lasted several days or longer when you lost interest in most things like work, hobbies, and other things you usually enjoy. Did you ever have a period of this sort that lasted most of the day, nearly every day for two weeks or longer?

- 1 YES
- 5 NO

**Universe**

BLN_HHL.HU9 > 0  
BLSCREENING.SC19 = 1  
((BLSCREENING.SC21 = 1) OR (BLSCREENING.SC22 = 1)) OR (BLSCREENING.SC23 = 1)  
DO = 3

<table>
<thead>
<tr>
<th>Value</th>
<th>Label</th>
<th>Frequency</th>
<th>Valid Percent</th>
<th>Total Percent</th>
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<tbody>
<tr>
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<td>68</td>
<td>29.96%</td>
<td>0.73%</td>
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<tr>
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<td>159</td>
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<td>.</td>
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<td>9055</td>
<td>-</td>
<td>97.55%</td>
</tr>
</tbody>
</table>

**Disclaimer:** Frequencies displayed above are not weighted.

- **Missing Data Codes:** . (Missing)
- **Total Cases:** 9282
MQDS Summary

Three Process

1. Import
2. Export
3. Transform

Three Products

Relational DB
SQL Server / SQL Server Express
XML (DDI 3.1)
Questionnaire
Codebook
MQDS usage

• **Free** to all Blaise community users
• Questionnaire design
• Questionnaire documentation
• Quick data transformation (BDB format to SAS, SPASS or SQL DB format)
• Creating interviewers’ training materials
• Codebook with universe info
• *(CPES)*
MQDS Limitations

- Complex Blaise questionnaire roster structure
- Blaise alien router (external program)
- Paradata
- Not a tool for Survey life circle documentation yet....
Where we are going... and DDI for...

Mixed Mode Project Management

Mixed Mode Survey Management

CATI

CAPI

WEB

MAIL

Ancillary Data

Admin Data

Decentralized CATI

Metadata

Paradata

Survey data
By the way, here is the “hot” topic in my world....... Data Collection Possibilities with Mobile Technologies

- Phone
- Link to online survey
- Self administered survey app
- App based data collection
- SMS / MMS
- Email
- Reminders to complete via phone, email or SMS

- GPS Location Check in
- Bar code scanner
- Social Data Capture
- Audio Recording/Oral Instructions or Training
- Bluetooth
- Visual Data Capture
- Accelerometer
Thank you!

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