



# Survey Research Operations

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## Michigan Questionnaire Documentation System

MQDS 101: Questionnaires

April 16, 2007



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## What is MQDS?

The Michigan Questionnaire Documentation System (MQDS) primarily allows you to create questionnaire documentation and codebooks for a data collection instrument programmed in Blaise.



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MQDS Michigan Questionnaire Documentation System (2.3.2.0)



MQDS Tools Help

Questionnaire Documentation  
Codebook from Blaise Database  
Codebook from SAS (XML) Data



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MQDS Training Project

User Guide

Legend

Eng

•SECTION\_HHL

•HHLIST

•SECTION\_A

•SECTION\_B

•SECTION\_C

•SECTION\_D

## SECTION\_A

A0

**Before you begin this interview, you must have a consent form signed by the selected Respondent.**

**If this is an interview being taped for quality control purposes, the Respondent must also sign an audio tape consent form and you must start the tape recorder so that the following statement is on tape.**

**Everyone must be read the following statement:**

Thank you for agreeing to be interviewed. Your help can make a real difference to your community. We are doing this study in order to improve banking and other financial services in the community. Your thoughts on these issues could help policy makers figure out how to help a lot of people in the community get better access to good financial services.

This interview is completely voluntary. If we should come to any question you don't want to answer, just let me know and I will go on to the next question. The answers that you give will be kept confidential to the maximum extent allowable under federal and state law.

♦ ENTER [1] to continue

☐ 1 Continue



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•SECTION\_HHL

•HHLIST

•SECTION\_A

•SECTION\_B

•SECTION\_C

•SECTION\_D

## [F1] - HELP

Do you own or rent your home?

☐ 1 Own

☐ 2 Rent

## B1A\_IC\_11

B\_Intro = 1 Yes

☐ 1 EXPR IS FALSE GOTO C1

☐ 2 EXPR IS TRUE

## B1a

I want to start by asking you about accounts at a bank, savings & loan or credit union. Please think about any accounts which you own, including joint accounts.

Do you currently have a checking account?

☐ 1 Yes

☐ 5 No

☐ 6 Respondent has no Bank Account of any kind GOTO B2



My Computer



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English



SO3INTR2

SO3INTR2.

You had a fear of a number of social or performance situations on the list.  
Can you remember your exact age the very first time you had a fear of any of these situations?

- ☐ 1 YES
- ☐ 5 NO

Spanish



SO3INTR2

SO3INTR2.

Usted ha tenido miedo a ciertas situaciones sociales de la lista.  
¿Puede recordar la edad exacta que tenía la primera vez que tuvo miedo a alguna de estas situaciones?

- ☐ 1 SI
- ☐ 5 NO

SO3INTR2

SO3INTR2.

Nagkaroon ka ng takot sa ilang bilang kalagayangpanlipunan o pagpapalabas sa iyong listahan. Matandaan mo ba ang hustong gulang mo noongpinakaunang panahon kang nagkaroon ng takot saalinman sa mga kalagayan ng mga ito?

- ☐ 1 Oo
- ☐ 5 HINDI

Tag

- Household Listing
- Screening
- Depression
- Irritable Depression
- Panic
- Social Phobia
- Agoraphobia
- Childhood
- Demographics
- Acculturative Stress



## MQDS Background

- BlaiseDoc initiated in 2003/04
- Re-written in .NET in 2005 → MQDS
- February 2006: Consortium of international users
- February 2007: MQDS v 2.0 released to consortium
  
- April 2007: MQDS 2.3 released to consortium  
Expanded SRC Training





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## How is the output used?

- To test instruments
- To compare instrument versions
- Questionnaire documentation for IRB



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## Projects using MQDS & Examples of Use

- Health & Retirement Study (HRS)
- Mississippi Community Study (MCS)
- NCHS – NSAL - NLAAS
- National Study of Medical Decisions (NSMD)
- National Survey of Family Growth (NSFG)
- Panel Study of Income Dynamics (PSID)
- World Mental Health (WMH)



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## Various MQDS Users

- Project Managers
- Principal Investigators
- Data Ops
- Blaise programmers
- Testers
- Help Desk



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## Main Goals of this Class

- To generate questionnaire documentation from a Blaise datamodel.
- To customize the questionnaire documentation output.



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Overview of MQDS & Questionnaires	40 min
Demo and Practice	40 min
Break	10 min
Practice 2	45 min
Re-applying a stylesheet	30 min
Wrap up & Questions	15 min



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Now for the **technical** portion of the training...



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## System Requirements

- Windows XP or Windows 2000
- The .Net 2.0 Framework must be installed.
- The J# Redistributable Package must be installed.
- Available HD space – enough for the application to install, plus enough to process the project you are using
  - A useful rule of thumb is to have at least 1GB available. This is not usually a problem with university computers.
- At least 1 GB of RAM



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## Input Requirements

Required to create a questionnaire:

- Blaise datamodel (all \*.bmi, \*.bdm, \*.bxi files, including external lookups)

Required for other utilities:

- Blaise database (\*.bdb)
- SAS data set (\*.sas7bdat)





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## How does it work?

It works by analyzing the data model and its associated files, exporting that information (or metadata) to an XML file, and then rendering the needed elements via XSL (stylesheets) for the user.



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## Why XML?

The **Extensible Markup Language (XML)** is a W3C-recommended general-purpose markup language that supports a wide variety of applications.

Its primary purpose is to facilitate the sharing of data across different information systems, particularly systems connected via the Internet.



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## Overview of Functionality

- Questionnaire – will be covered today
- Codebook – create a codebook from Blaise or SAS data
- Reapply a Style Sheet – change the appearance of your questionnaire or codebook without reprocessing



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## Overview of Functionality

- Blaise to SAS – convert data to a SAS dataset
- XML Merge – merge XML files, allowing you to process a complicated data model in small steps.



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## Overview of Functionality

- XML Compare – compare XML files to identify differences between data models.
- Compare Grid – compare multiple XML files.



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## What is a questionnaire?

A questionnaire is the document that defines all questions, all possible answers and the various paths an interview may follow.

Questionnaires are created during the design phase of a project and are used by project managers, programmers and testers.



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## About MDL

Metadata Language (MDL) is an alternative language that is added to a Blaise data model in the same manner that Spanish or Chinese would be.



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## MDL & MQDS

- If MDL is present in an data model, MQDS will use it in preference to the other existing languages.
- We will see an example of this when looking at fills in a few moments.
- Proper use of MDL can make questionnaires and codebooks more readable.





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## The Menu

**MQDS** Michigan Questionnaire Documentation System (2.2.13.0)

MQDS Tools Help

Questionnaire Documentation

Codebook from Blaise Database

Codebook from SAS (XML) Data

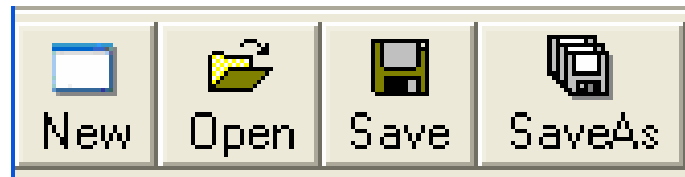


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## The Buttons



- **New** – reset the windows to empty and bring the user back to the File Selection Window
- **Open** – select an already-saved settings (or config.xml) file
- **Save** – save the current input as a setting file
- **Save As** – save the current input as a different setting file



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## File Selection

The screenshot shows a software window titled "Questionnaire Documentation" with a standard Windows-style title bar. Below the title bar is a menu bar with four icons: "New", "Open", "Save", and "SaveAs". The main area of the window is titled "File Selection" and contains five file selection fields, each with a label and a text box followed by a browse button (three dots):

- Select DataModel (\*.BMI): [Text box with "Required" in red] ...
- Select Help File (\*.HTML): [Text box] ...
- Select Support.mdb: [Text box] ...
- Select Fields File: [Text box] ...
- Select Output Folder: [Text box with "Required" in red] ...

At the bottom of the window are three buttons: "Back", "Next", and "Exit".



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## Language & Section Selection

Language and Section Selection

**Select Language (s):**

- ☒ English
- ☐ Metadata Language

**Select Section(s):**

- ☒ MQDSTrain
  - ☐ AddrConfirm
  - ☒ Section\_HHL
    - ☒ Section\_HHL.HHL\_INTRO1
    - ☒ Section\_HHL.HHLISTTABLE
      - ☒ Section\_HHL.HHLISTTABLE.HHLLISTBLOCK
    - ☒ Section\_HHL.ScrConfirm
    - ☒ Section\_HHL.NonEli\_Intro
    - ☒ Section\_HHL.Eli\_Intro
  - ☐ Section\_A
  - ☐ Section\_B
  - ☐ Section\_C
  - ☒ Section\_D
  - ☒ IwComplete

Back Next Exit



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## Stylesheet Selection

Stylesheet selection

1 Goto Statement Options

- ☒ Include "goto" statements
- ☐ Without "goto" statements

2 Display Fill Options

- ☐ Display Field Name
- ☒ Display Text Based on Rules
- ☐ Display Text from External Database

- ☐ and Process Rules
- ☐ and Do Not Process Rules

3 Stylesheet

- QNaire.xml
- QNaireRTF.xml
- Select Custom Stylesheet
- 4 → Stylesheet Option Selection

5 View Style Sheet Help



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## Questionnaire Example: Go Tos

**D1**

The next questions are about money orders and other ways of making payments...Have you purchased a money order at least once during the last 12 months?

- ☐ 1 Yes
- ☐ 5 No [GOTO D7](#)



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## Questionnaire Example:

Display Field  
Name

D2

Last month, that is in [XPREVMONTH], about how many money orders did you buy?

♦ IF DK OR RF: I only need to know **about** how many.

Display Text  
Based on  
Rules

D2

Last month, that is in [December / January / February / March / April / May / June / July / August / September / October / November], about how many money orders did you buy?

♦ IF DK OR RF: I only need to know **about** how many.

MDL  
Question  
Text

D2

Last month, that is in [the name of the previous month], about how many money orders did you buy?

♦ IF DK OR RF: I only need to know **about** how many.



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## Questionnaire Example:

SECTION\_D

---

D1

The next questions are about money orders and other ways of making payments. Have you purchased a money order at least once during the last 12 months?

- ☐ 1 Yes
- ☐ 5 No GOTO D7

---


D2

Last month, that is in [the name of the previous month], about how many money orders did you buy?

♦ IF DK OR RF: I only need to know **about** how many.

---

D3

 Page 5

Where do you **usually** buy your money orders? Do you buy them at the post office, the check casher, the supermarket, at a superstore or drugstore, at your workplace, at the bank or credit union, in the Western Union office, at a convenience or liquor store, or somewhere else?

"Other" option will not open a text box.





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## Stylesheet Options

Options Links

Stylesheet Option Selection

<b>Display Options:</b>	<b>Question Display:</b>
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input checked="" type="checkbox"/> Stylesheet Name	<input checked="" type="checkbox"/> Variable/field Name
<input checked="" type="checkbox"/> .ASK Questions	<input type="checkbox"/> Variable/field Tag
<input checked="" type="checkbox"/> .KEEP Questions	<input type="checkbox"/> Question Description
<input checked="" type="checkbox"/> .SHOW Questions	<input checked="" type="checkbox"/> Question Text
<input type="checkbox"/> Universe - Embedded	<input checked="" type="checkbox"/> Code Value (and universe)
<input type="checkbox"/> Universe - Hyperlinked	<input checked="" type="checkbox"/> Code Text (and universe)
<input checked="" type="checkbox"/> Roster/HHL	<input type="checkbox"/> Code Name (and universe)
<input checked="" type="checkbox"/> Preload Variables	<b>Logic Display:</b>
<input checked="" type="checkbox"/> Computed Variables	<input type="checkbox"/> Select All
<input checked="" type="checkbox"/> Procedure Section	<input checked="" type="checkbox"/> Gotos/Internal Routing
<input checked="" type="checkbox"/> Help	<input checked="" type="checkbox"/> Interviewer Checkpoints
<input type="checkbox"/> Links from support database	<input checked="" type="checkbox"/> Loops
	<input checked="" type="checkbox"/> Lookups
	<input type="checkbox"/> Explanation Next to Logic



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## Stylesheet Options

The screenshot shows a software window with two tabs: 'Options' and 'Links'. The 'Links' tab is active. Inside the window, there is a section titled 'Output Display Option Selection' with a sub-header 'Display of Links'. Below this, there are two sets of radio button options. The first set, 'Display of Links', has two options: 'Underlined' (which is selected) and 'Not Underlined'. The second set, 'Color of Links', has four options: 'Black' (which is selected), 'Blue', 'Green', and 'Red'.

Options Links

Output Display Option Selection

**Display of Links**

☒ Underlined  
☐ Not Underlined

**Color of Links**

☒ Black  
☐ Blue  
☐ Green  
☐ Red



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## Stylesheet Options

- Options Tab, Display Options:
  - Stylesheet Name

Michigan Questionnaire Documentation System (QNaire.xml)

User Gui

SECTION\_D

- .ASK Questions – questions that are presented to the interviewer and asked of the respondent.
- .KEEP Questions – questions not presented to the interviewer but used to store data.
- .SHOW Questions – questions presented to the interviewer but not asked of the respondent.



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## Stylesheet Options

D2

Last month, that is in [the name of the previous month], about how many money orders did you buy?

◆ **IF DK OR RF:** I only need to know **about** how many.

Universe Hem3

D1 = 1 Yes

D1

The next questions are about money orders and other ways of making payments. Have you purchased a money order at least once during the last 12 months?

☐ 1 Yes

☐ 5 No [GOTO D7](#)

[Universe](#)



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## Stylesheet Options: With Roster

FOR HHLISTTABLE = 1 TO 20

Name	Question Text	Code	Cate
	Is there anyone else in this household that you have not mentioned yet?	<input type="radio"/> 1 Yes <input type="radio"/> 5 No	
	[What is your first name? / What is this person's first name?] <b>♦ ENTER first name</b>	<input type="text"/> GOTO HHL_REL_IC_6	
	And what is [SECTION_HHL.HHLISTTABLE.HHLLISTBLOCK.HHL_NAME / this person]'s relationship to yourself?	<input type="radio"/> 1 Self GOTO SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 2 Wife/female GOTO partner SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 3 Husband/male GOTO partner SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 4 Mother GOTO SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 5 Father GOTO SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 6 Sister GOTO SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 7 Brother GOTO SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 8 Daughter GOTO SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 9 Son GOTO SECTION_HHL.HHLISTTABLE.HHLLISTBLO GOTO	



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## Stylesheet Options: Without Roster

**FOR HHLISTTABLE = 1 TO 20** Is there anyone else in this household that you have not mentioned yet?

- ☐ 1 Yes
- ☐ 5 No

[What is your first name? / What is this person's first name?]

♦ **ENTER first name**

GOTO HHL\_REL\_IC\_6

And what is [SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.HHL\_NAME / this person]'s relationship to yourself?

- ☐ 1 Self GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 2 Wife/female partner GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 3 Husband/male partner GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 4 Mother GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 5 Father GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 6 Sister GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 7 Brother GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 8 Daughter GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 9 Son GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 10 Grandmother GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 11 Grandfather GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I



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## Stylesheet Options

- Display Options:
  - Preload Variables – variables that are loaded before the interview begins
  - Computed Variables – variables that are computed during an interview, such as today's date
  - Procedure Section
  - Help – QxQ or FR Help
  - Links from support database – links supplied by the support database.



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## Stylesheet Options

- Links from support database – links supplied by the support database.

**D1**

The next questions are about money orders and other ways of making payments. Have you purchased a money order at least once during the last 12 months?

☐ 1 Yes

☐ 5 No

**External Links**

**11.33**





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## Stylesheet Options

Variable Name

Variable Tag

**D1 D1**

The next questions are about money orders and other ways of making payments. Have you purchased a money order at least once during the last 12 months?

☐ 1 Yes

☐ 5 No [GOTO D7 D7](#)

Variable Name

Variable Tag

**B3 TrustHCP**

**B3.**

On a scale from zero to 10, where 0 means do not trust at all and 10 means trust completely, how much do you trust your personal health care provider's judgments about your medical care?

Part of Question Text



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## Stylesheet Options

- Question Display:
  - Question Description – a description of the question and its intent; this may or may not be present in a datamodel.
  - Question Text
  - Code Value (and universe) – the answer value actually stored by Blaise; for example “1” for “Yes”
  - Code Text (and universe) – the answer text displayed to the interviewer; for example, “Yes, I buy lotto tickets”
  - Code Name (and universe) – the answer name used internally in the datamodel; for example, yes\_lotto



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## Stylesheet Options

Code V

<input type="radio"/> 1	USPS	Post office	GOTO D4_IC_13
<input type="radio"/> 2	ChkCasher	Check casher	GOTO D4_IC_13
<input type="radio"/> 3	SuperMkt	Supermarket	GOTO D4_IC_13
<input type="radio"/> 4	SuperStor	Super-store or Drug Store	GOTO D4_IC_13
<input type="radio"/> 5	Work	Work place	GOTO D4_IC_13
<input type="radio"/> 6	Bank	Bank or Credit Union	GOTO D4_IC_13
<input type="radio"/> 7	WestUnion	Western Union office	GOTO D4_IC_13
<input type="radio"/> 8	ConvStor	Convenience store or liquor store	GOTO D4_IC_13
<input type="radio"/> 9	Other	Other place	GOTO D4_IC_13

Code Text

### D1 D1

The next questions are about money orders and other ways of making payments. Have you purchased a money order at least once during the last 12 months?

- ☐ 1 Yes Yes
- ☐ 5 No No GOTO D7 D7



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## Stylesheet Options

- Logic Display:
  - Gotos/Internal Routing – aka “skip patterns”
  - Interviewer Checkpoints
  - Loops – statement of the number of times a loop will repeat
  - Lookups – links to the external lookup files from the main .bmi
  - Explanation Next to Logic



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## Stylesheet Options

- Links:
  - Display of Links – underlined or not
  - Color of Links – black, blue, green, red



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## Summary Screen

Summary

Settings:

DataModel: C:\b\_project\projectD\MQDSTrain.bmi  
Output: C:\b\_project\projectD\qnr\_withlinkuniv  
Language: English  
StyleSheet based upon C:\Program Files\MQDS\support\QNAire.xml

Back Next Exit



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## Processing Screen

Process

Language:		Field:	
Block			
Language:			
Field:			

Back Process Exit

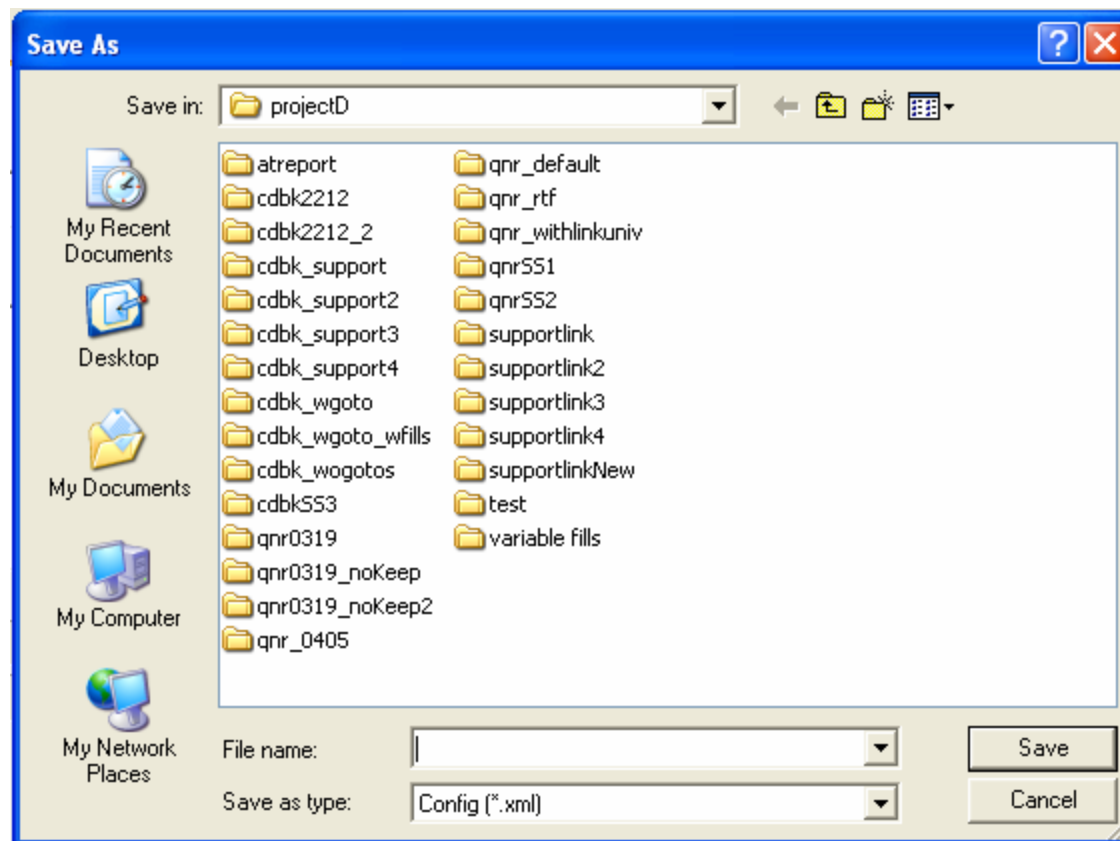


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## Save a config file





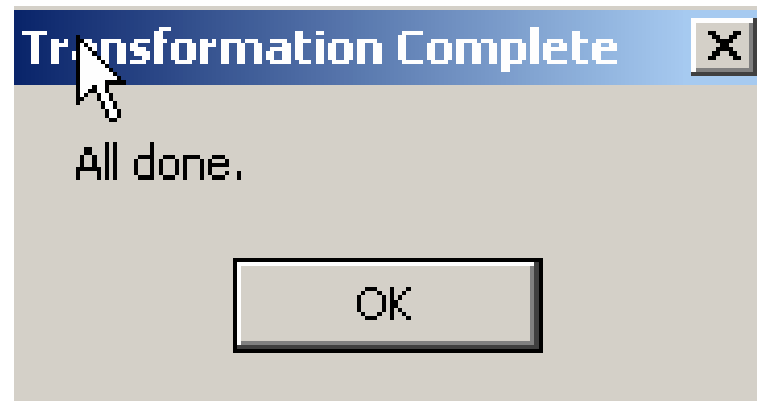


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## Finished!





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## Best Practices

- Process files to and from your own hard drive.
- Separate input from output.
- Always save output to a NEW folder. Doing otherwise may overwrite data.
- Use an output naming convention to indicate the project, output type, style sheet used, etc. For example, FSPQnrGoTosVarFill vs. FSPQnrNoGoTosRuleFill



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## Questionnaire Demo

We will create a questionnaire for one section of the “ProjectD” data model, using the default selections where possible.

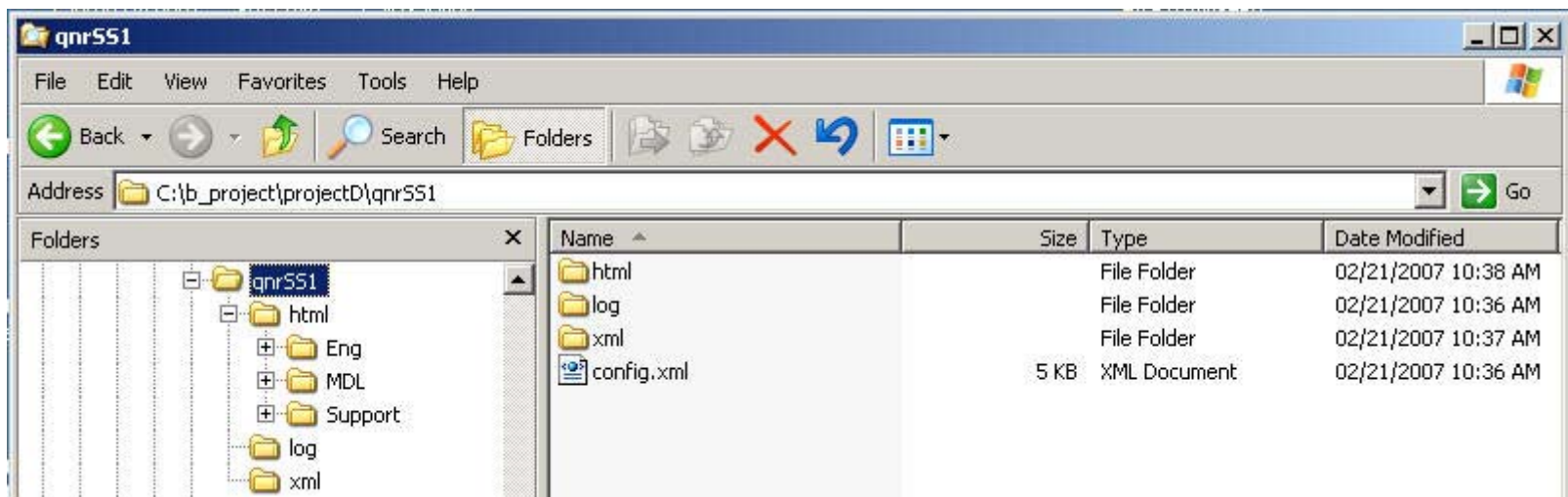


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## Viewing Output





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## Viewing Output

The screenshot shows a Windows Explorer window titled 'html'. The address bar displays the path 'C:\b\_project\projectD\qnrSS1\html'. The left pane shows a folder tree with 'qnrSS1' expanded, revealing subfolders 'html', 'Eng', 'Support', 'MDL', 'log', and 'xml'. The 'html' folder is selected. The right pane displays a list of files and folders within 'html'.

Name	Size	Type	Date Modified
Eng		File Folder	02/21/2007 10:38 AM
MDL		File Folder	02/21/2007 10:36 AM
Support		File Folder	02/21/2007 10:38 AM
Contents.html	2 KB	HTML Document	02/21/2007 10:38 AM
Header.html	1 KB	HTML Document	02/21/2007 10:38 AM
section.html	2 KB	HTML Document	02/21/2007 10:38 AM
Select.html	1 KB	HTML Document	02/21/2007 10:38 AM



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## Viewing Output

(open example)



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## Practice 1

- Find the c:\MQDSprojects\projectD folder on your computer.
  - This contains all the files you will need to create your first questionnaire.
- Create a folder for your output in C:\MQDSprojects\projectD and name it appropriately.
- For this first practice, please use the default options and stylesheet.





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## Practice 1 Output

- Did you get the expected output?
- Did you receive any errors?
- Check your log folder



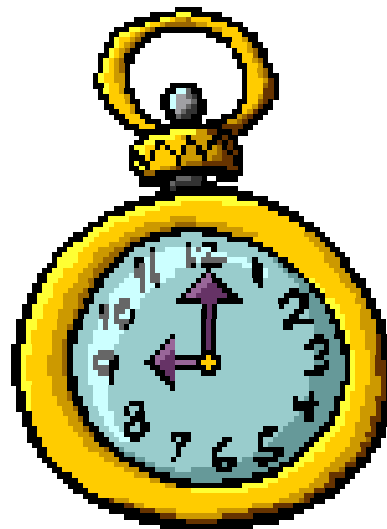


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## 10 Minute Break





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## Practice 2

- Create a new output folder.
- For this run, use the config.xml file you created previously and edit your options.
- Make any other changes you wish.



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## Practice 2 Output

- How did your output change?



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## Why Re-apply a Stylesheet?

- You used the wrong stylesheet.
- A new style sheet has been created.
- You merged the output from two or more runs.



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## How to Re-apply a Style Sheet

- Select an XML file (usually named following the *[datamodel]\_[language].xml* convention).
- Select an output folder.
- Select a stylesheet.
- Select the config.xml file used to create the output.
- Click on “Process”.



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## Tips and Tricks

- If your data model is too large or complex to process all at once:
  - Try running it without Go Tos
  - Try running half of it at a time, then merging the two resulting XML files
  - Try running one section at a time
  - Increase the amount of memory available in your PC



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## Tips and Tricks

- Use the support.db to add external links
  - The support database is covered in more detail in MQDS 301 and in the manual.
- The config file is extremely important.
  - Can ensure consistency between runs
  - Saves style settings
  - Aids troubleshooting



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## Review

- Questionnaires can be created quickly and easily.
- Large or complex data models can be processed one section at a time.
- Always make a new directory for new output.
- Reapplying a stylesheet is faster and easier than reprocessing a document.





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## Q&A



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## Accessing MQDS

SRC-Katona\Vol1\Groups\SRO Applications



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## Contacting the SRO Help Desk

- Email [help@isr.umich.edu](mailto:help@isr.umich.edu)
- Call 1-800-631-2819
- Be sure to have the following information:
  - MQDS build number
  - Data model
  - Config file or:
    - External files selected
    - Stylesheet options selected
  - Description of the Problem



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## Michigan Questionnaire Documentation System

MQDS 201: Codebooks

April 16, 2007



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## Your Trainers

- Tricia Blanchard ([triciabl@isr.umich.edu](mailto:triciabl@isr.umich.edu))
- Heidi Guyer ([hguyer@isr.umich.edu](mailto:hguyer@isr.umich.edu))
- Ruth Philippou ([ruthph@isr.umich.edu](mailto:ruthph@isr.umich.edu))



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## What is MQDS?

The Michigan Questionnaire Documentation System (MQDS) primarily allows you to create questionnaire documentation and codebooks for a data collection instrument programmed in Blaise.



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MQDS Michigan Questionnaire Documentation System (2.3.2.0)



MQDS Tools Help

Questionnaire Documentation  
Codebook from Blaise Database  
Codebook from SAS (XML) Data



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## What is a codebook?

Study documentation displaying all questions/variables in a data collection instrument and the frequency of each answer category.

- MQDS generates a codebook in HTML according to your specifications in order to meet the needs of different projects.





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D1

The next questions are about money orders and other ways of making payments. Have you purchased a money order at least once during the last 12 months?

- ☐ 1 Yes
- ☐ 5 No [GOTO D7](#)

## Universe

Value Label	Frequency	Valid Percent	Total Percent
1 Yes	666	66.53%	66.40%
5 No	335	33.47%	33.40%
8 Refused	1		00.10%
9 Don't Know	1		00.10%
<b>Total cases</b>	1003		

- **Position:** 16
- **Missing Data Codes:** 8,9,. (DK/RF are not valid)
- **Type:** numeric
- **Decimals:** 0



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## Projects using MQDS & Examples of Use

- Health & Retirement Study (HRS)
- Mississippi Community Study (MCS)
- NCHS – NSAL - NLAAS
- National Study of Medical Decisions (NSMD)
- National Survey of Family Growth (NSFG)
- Panel Study of Income Dynamics (PSID)
- World Mental Health (WMH)



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## Various MQDS Users

- Project Managers
- Principal Investigators
- Data Ops
- Blaise programmers
- Testers
- Help Desk



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## Main Goals of this Class

- To generate a codebook using a Blaise data model.
- To generate a codebook using a SAS data set.
- To customize the codebook documentation output.



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Overview of MQDS & Codebooks	60 min
Practice (Codebook from XML)	40 min
Break	10 min
Practice (Codebook from SAS)	40 min
Wrap up & Questions	30 min



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Now for the **technical** portion of the training...



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## What is a codebook?

A codebook is a document which identifies all of the variable names and code numbers associated with each possible response to each question that makes up the data set.

A codebook also provides some data on the frequency with which each possible response was given over the course of the project.



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## How does it work?

It works by analyzing the data model and its associated files, exporting that information (or metadata) to an XML file, and then rendering the needed elements via XSL (stylesheets) for the user.





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## About MDL

Metadata Language (MDL) is an alternative language that is added to a Blaise data model in the same manner that Spanish or Chinese would be.



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## MDL & MQDS

- If MDL is present in an data model, MQDS will use it in preference to the other existing languages.
- We will see an example of this when looking at fills in a few moments.
- Proper use of MDL can make questionnaires and codebooks more readable.



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## File Selection

File Selection

Select DataModel (\*.BMI):  ...

Select Blaise DataBase (\*.BDB):  ...

Select Help File (\*.HTML):  ...

Select Support.mdb:  ...

Select Fields File:  ...

Select Output Folder:  ...

Back Next Exit



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## Language, Section and Missing Data Values Selection

Language, Section, And Missing Data Values Selection

**Select Language(s):**

☐ English  
☐ Metadata Language

**Select Section(s):**

- ☐ MQDSTrain
  - ☐ SampleID
  - ☐ Address
  - ☐ Flip\_Code
  - ☐ U\_Code
  - ☐ V\_Code
  - ☐ VersionDate
  - ☐ VersionTime
  - ☐ CurrentSecs
  - ☐ TotalSecs
  - ☐ I/WStartDate
  - ☐ I/WCurrDate
  - ☐ TS\_BeginI/W
  - ☐ AddrConfirm
  - ☐ Section\_HHL
    - ☐ HHLList
  - ☐ Section\_A
    - ☐ Section\_B

**Select Valid Missing Values**

☐ DK Valid ☐ RF Valid

Back Next Exit



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## Codebook Example:

Valid vs. Invalid RF/DK

Both Valid

Value Label	Frequency	Valid Percent	Total Percent
1 Yes	666	66.40%	66.40%
5 No	335	33.40%	33.40%
8 Refused	1	00.10%	00.10%
9 Don't Know	1	00.10%	00.10%
<b>Total cases</b>	1003		

Both Invalid

Value Label	Frequency	Valid Percent	Total Percent
1 Yes	666	66.53%	66.40%
5 No	335	33.47%	33.40%
8 Refused	1		00.10%
9 Don't Know	1		00.10%
<b>Total cases</b>	1003		



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## Stylesheet Selection

Stylesheet selection

Goto Statement Options

☒ Include "goto" statements

☐ Without "goto" statements

Display Fill Options

☐ Display Field Name

☒ Display Text Based on Rules

☐ Display Text from External Database

☐ and Process Rules

☐ and Do Not Process Rules

Stylesheet

Codebook.xml

Select Custom Stylesheet

Stylesheet Option Selection

View stylesheet help

Back

Next

Exit



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## Codebook Example: Go Tos

**D1**

The next questions are about money orders and other ways of making payments. Have you purchased a money order at least once during the last 12 months?

- ☐ 1 Yes
- ☐ 5 No [GOTO D7](#)



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## Codebook Example

Display Field  
Name

D2

Last month, that is in [XPREVMONTH], about how many money orders did you buy?

♦ **IF DK OR RF:** I only need to know **about** how many.

Display Text  
Based on  
Rules

D2

Last month, that is in [December / January / February / March / April / May / June / July / August / September / October / November], about how many money orders did you buy?

♦ **IF DK OR RF:** I only need to know **about** how many.

MDL  
Question  
Text

D2

Last month, that is in [the name of the previous month], about how many money orders did you buy?

♦ **IF DK OR RF:** I only need to know **about** how many.





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## Codebook Example

**D1**

The next questions are about money orders and other ways of making payments...Have you purchased a money order at least once during the last 12 months?

- ☐ 1 Yes
- ☐ 5 No GOTO D7

### Data Values

Value Label	Frequency	Valid Percent	Total Percent
1 Yes	666	66.53%	66.40%
5 No	335	33.47%	33.40%
8 Refused	1		00.10%
9 Don't Know	1		00.10%

Total cases 1003

### Data Definitions

- **Position:** 422
- **Missing Data Codes:** 8 (RF) , 9 (DK) , . = (SYS MISSING) (DK is invalid, RF is invalid)
- **Type:** numeric
- **Decimals:** 0



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## Codebook Example:

D2

Last month, that is in [the name of the previous month], about how many money orders did you buy?

♦ **IF DK OR RF:** I only need to know **about** how many.

0 - 9,999

### Data Values

N	DK	Sys Missing	Mean	Std Dev	Median	Min	Max
665	1	337	2.38	3.28	2	0	40

Total cases 1003

### Data Definitions

- **Position:** 423
- **Valid Range:** 0 - 9,999
- **Missing Data Codes:** 99998 (RF) , 99999 (DK) , . = (SYS MISSING)
- **Type:** numeric
- **Decimals:** 0



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## Codebook Example: Default Style, String Variable

D6

What is the **most important reason** why you use money orders?

### Data Values

N	Sys Missing
666	337

Total cases 1003

### Data Definitions

- **Position:** 442
- **Type:** String



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## Stylesheet Options

Stylesheet Options

Options Links

Stylesheet Option Selection

<b>Display Options:</b>	<b>Question Display:</b>
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input checked="" type="checkbox"/> Stylesheet Name	<input checked="" type="checkbox"/> Variable/field Name
<input checked="" type="checkbox"/> .ASK Questions	<input type="checkbox"/> Variable/field Tag
<input checked="" type="checkbox"/> .KEEP Questions	<input type="checkbox"/> Question Description
<input checked="" type="checkbox"/> .SHOW Questions	<input checked="" type="checkbox"/> Question Text
<input checked="" type="checkbox"/> Frequencies	<input checked="" type="checkbox"/> Code Value (and universe)
<input type="checkbox"/> Universe - Embedded	<input checked="" type="checkbox"/> Code Text (and universe)
<input type="checkbox"/> Universe - Hyperlinked	<input type="checkbox"/> Code Name (and universe)
<input checked="" type="checkbox"/> Roster/HHL	<input type="checkbox"/> SAS Variable Name
<input checked="" type="checkbox"/> Preload Variables	<b>Logic Display:</b>
<input checked="" type="checkbox"/> Computed Variables	<input type="checkbox"/> Select All
<input checked="" type="checkbox"/> Procedure Section	<input checked="" type="checkbox"/> Gotos/Internal Routing
<input checked="" type="checkbox"/> Help	<input checked="" type="checkbox"/> Interviewer Checkpoints
<input type="checkbox"/> Links from support database	<input checked="" type="checkbox"/> Loops
	<input checked="" type="checkbox"/> Lookups
	<input type="checkbox"/> Explanation Next to Logic

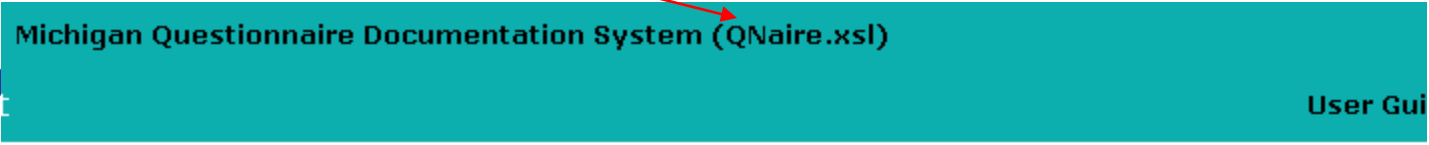


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## Stylesheet Options

-   
Michigan Questionnaire Documentation System (QNaire.xsl) User Gui  
SECTION\_D

- .ASK Questions –are presented to the interviewer and asked of the respondent.
- .KEEP Questions – are not presented to the interviewer but used to store data.
- .SHOW Questions – are presented to the interviewer but not asked of the respondent.



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## Codebook Example

D1

The next questions are about money orders and other ways of making payments. Have you purchased a money order at least once during the last 12 months?

- ☐ 1 Yes
- ☐ 5 No [GOTO D7](#)

### Universe

AddrConfirm = 1

[Section\\_HHL.Eli\\_Intro](#) = Continue

[Section\\_B.B\\_Intro](#) = Yes

Value	Label	Frequency	Valid Percent	Total Percent
1	Yes	666	66.40%	66.40%
5	No	335	33.40%	33.40%
8	Refused	1	00.10%	00.10%
9	Don't Know	1	00.10%	00.10%
Total cases		1003		

- **Position:** 16
- **Missing Data Codes:** . (DK/RF are not valid)
- **Type:** numeric
- **Decimals:** 0



# Survey Research Operations

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## Codebook Example

D1

The next questions are about money orders and other ways of making payments. Have you purchased a money order at least once during the last 12 months?

- ☐ 1 Yes
- ☐ 5 No GOTO D7

### Universe

Value Label	Frequency	Valid Percent	Total Percent
1 Yes	666	66.53%	66.40%
5 No	335	33.47%	33.40%
8 Refused	1		00.10%
9 Don't Know	1		00.10%
<b>Total cases</b>	1003		

- **Position:** 16
- **Missing Data Codes:** 8,9,. (DK/RF are not valid)
- **Type:** numeric
- **Decimals:** 0



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## Stylesheet Options: With Roster

FOR HHLISTTABLE = 1 TO 20

Name	Question Text	Code	Cate
	Is there anyone else in this household that you have not mentioned yet?	<input type="radio"/> 1 Yes <input type="radio"/> 5 No	
	[What is your first name? / What is this person's first name?] <b>♦ ENTER first name</b>	<input type="text"/> GOTO HHL_REL_IC_6	
	And what is [SECTION_HHL.HHLISTTABLE.HHLLISTBLOCK.HHL_NAME / this person]'s relationship to yourself?	<input type="radio"/> 1 Self GOTO SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 2 Wife/female GOTO partner SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 3 Husband/male GOTO partner SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 4 Mother GOTO SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 5 Father GOTO SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 6 Sister GOTO SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 7 Brother GOTO SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 8 Daughter GOTO SECTION_HHL.HHLISTTABLE.HHLLISTBLO <input type="radio"/> 9 Son GOTO SECTION_HHL.HHLISTTABLE.HHLLISTBLO GOTO	





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## Stylesheet Options: Without Roster

**FOR HHLISTTABLE = 1 TO 20** Is there anyone else in this household that you have not mentioned yet?

- ☐ 1 Yes
- ☐ 5 No

[What is your first name? / What is this person's first name?]

♦ **ENTER first name**

GOTO HHL\_REL\_IC\_6

And what is [SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.HHL\_NAME / this person]'s relationship to yourself?

- ☐ 1 Self GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 2 Wife/female partner GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 3 Husband/male partner GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 4 Mother GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 5 Father GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 6 Sister GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 7 Brother GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 8 Daughter GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 9 Son GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 10 Grandmother GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I
- ☐ 11 Grandfather GOTO SECTION\_HHL.HHLISTTABLE.HHLLISTBLOCK.I



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## Stylesheet Options

- Display Options:
  - Preload Variables – variables that are loaded before the interview begins
  - Computed Variables – variables that are computed during an interview, such as today's date
  - Procedure Section
  - Help – QxQ or FR Help
  - Links from support database – links supplied by the support database



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## Stylesheet Options

- **Links from support database**      **links**

D1

S1 The next questions are about money orders and other ways of making payments. Have you purchased a money order at least once during the last 12 months?

☐ 1 Yes

☐ 5 No

External Links

**11.33**

Text and url for link are supplied by the support database. Use of the database is covered in more detail in the manual.



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## Stylesheet Options

Variable Name

Variable Tag

**D1 D1**

The next questions are about money orders and other ways of making payments. Have you purchased a money order at least once during the last 12 months?

☐ 1 Yes

☐ 5 No [GOTO D7 D7](#)

Variable Name

Variable Tag

**B3 TrustHCP**

**B3.**

On a scale from zero to 10, where 0 means do not trust at all and 10 means trust completely, how much do you trust your personal health care provider's judgments about your medical care?

Part of Question Text



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## Stylesheet Options

- Question Display:
  - Question Description – a description of the question and its intent; this may or may not be present in a datamodel.
  - Question Text



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## Stylesheet Options

Code V

<input type="radio"/> 1	USPS	Post office	<a href="#">GOTO D4_IC_13</a>
<input type="radio"/> 2	ChkCasher	Check casher	<a href="#">GOTO D4_IC_13</a>
<input type="radio"/> 3	SuperMkt	Supermarket	<a href="#">GOTO D4_IC_13</a>
<input type="radio"/> 4	SuperStor	Super-store or Drug Store	<a href="#">GOTO D4_IC_13</a>
<input type="radio"/> 5	Work	Work place	<a href="#">GOTO D4_IC_13</a>
<input type="radio"/> 6	Bank	Bank or Credit Union	<a href="#">GOTO D4_IC_13</a>
<input type="radio"/> 7	WestUnion	Western Union office	<a href="#">GOTO D4_IC_13</a>
<input type="radio"/> 8	ConvStor	Convenience store or liquor store	<a href="#">GOTO D4_IC_13</a>
<input type="radio"/> 9	Other	Other place	<a href="#">GOTO D4_IC_13</a>

Code Text

### D1 D1

The next questions are about money orders and other ways of making payments. Have you purchased a money order at least once during the last 12 months?

- ☐ 1 Yes Yes
- ☐ 5 No No [GOTO D7 D7](#)



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## Stylesheet Options

- Logic Display:
  - Gotos/Internal Routing – aka “skip patterns”
  - Interviewer Checkpoints
  - Loops – statement of the number of times a loop will repeat
  - Lookups – links to the external lookup files from the main .bmi
  - Explanation Next to Logic



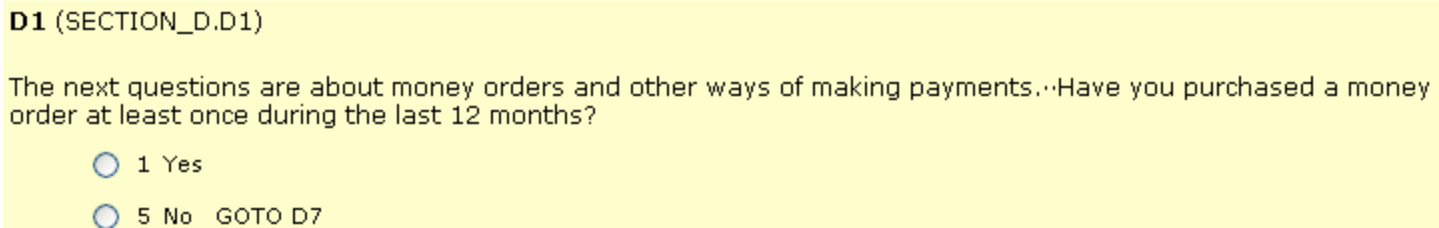
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## Codebook Only Stylesheet Options

- Frequencies – uncheck this to create a codebook without frequencies

-  **D1 (SECTION\_D.D1)**  
The next questions are about money orders and other ways of making payments. Have you purchased a money order at least once during the last 12 months?  
☐ 1 Yes  
☐ 5 No GOTO D7





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## Stylesheet Options

The screenshot shows a software window with two tabs: 'Options' and 'Links'. The 'Links' tab is active. Inside the window, there is a section titled 'Output Display Option Selection' with a sub-header 'Display of Links'. Below this, there are two sets of radio button options. The first set is for 'Display of Links' with options 'Underlined' and 'Not Underlined'. The second set is for 'Color of Links' with options 'Black', 'Blue', 'Green', and 'Red'. The 'Underlined' option for display and the 'Black' option for color are currently selected.

Options Links

Output Display Option Selection

**Display of Links**

☒ Underlined  
☐ Not Underlined

**Color of Links**

☒ Black  
☐ Blue  
☐ Green  
☐ Red



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## Stylesheet Options

- Links:
  - Display of Links – underlined or not
  - Color of Links – black, blue, green, red



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## Summary Screen

Summary

Settings:

DataModel: C:\b\_project\fsp\FSP.bmi  
BDB: C:\b\_project\fsp\fsp.bdb  
Output: C:\b\_output\fsptest  
Language: Default Language  
StyleSheet: Codebook3.XSL

Back Process Exit



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## Processing Screen

The screenshot shows a software window titled "Process". Inside the window, there are two main sections. The top section has two labels: "Language:" and "Field:". Below "Language:" is a text input field. Below "Field:" is a larger text area. The bottom section also has "Language:" and "Field:" labels, each followed by a text input field. A status bar at the bottom of the window contains three buttons: "Back", "Process", and "Exit".

Process

Language:

Field:

Block

Running Blaise to XML this will take few minutes please wait...

Language:

Field:

Back Process Exit

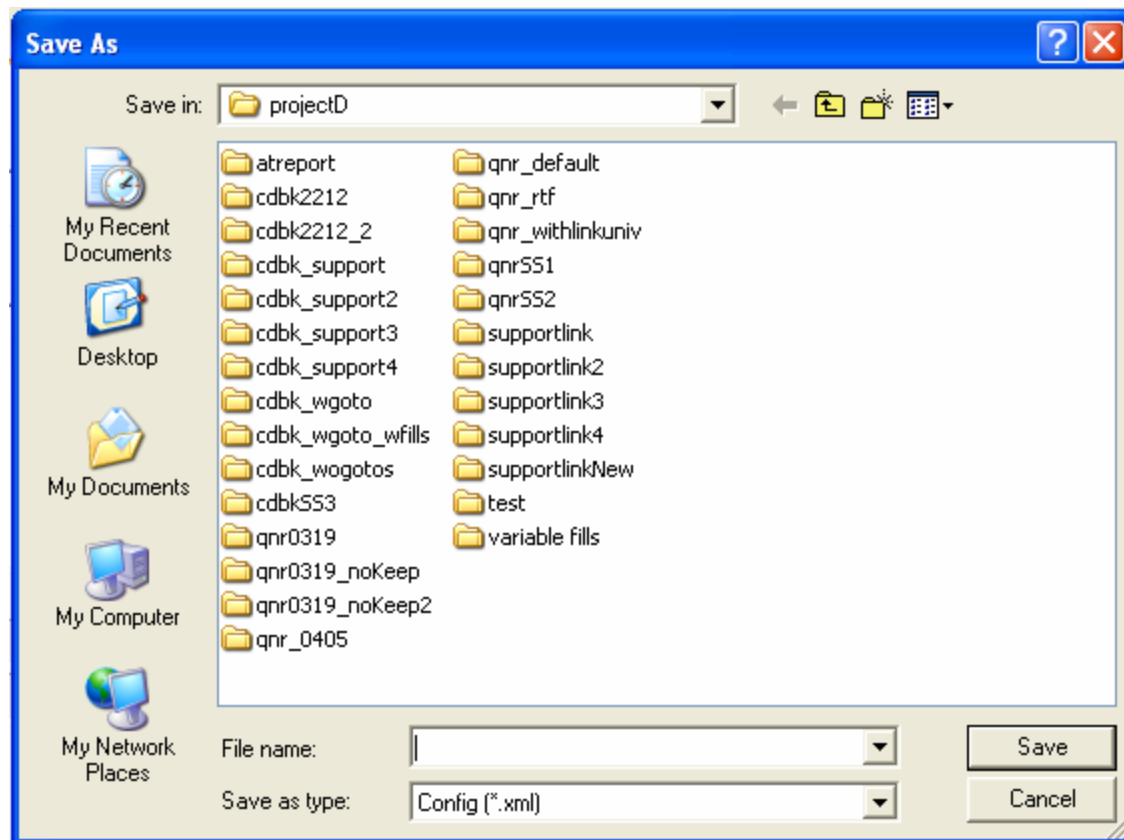


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## Save a config file



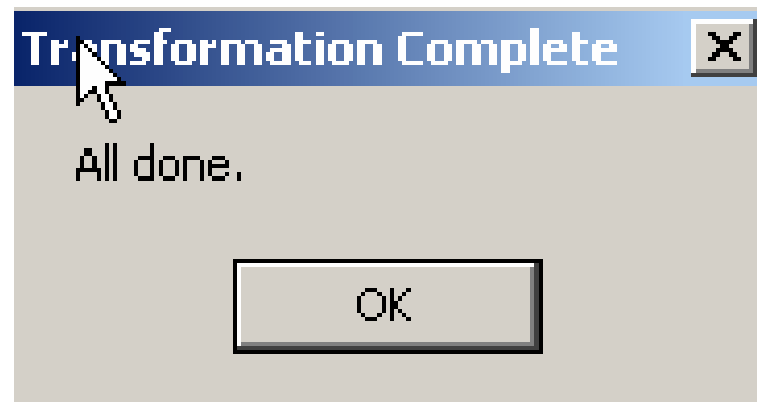


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## Finished!





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## Best Practices

- Process files to and from your own hard drive.
- Separate input from output.
- Always create a NEW folder for your output so that you will not overwrite old output.
- Use an output naming convention to indicate the project, output type, style sheet used, etc. For example, FSPCbkSS1GoTosRFDK vs. FSPCbkSS2NoGoTosNoRFDK



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## Codebook Demo

We will create a codebook for one section of the ProjectD data model and Blaise database, using the default selections where possible.





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## Practice 1

- Find the c:\ProjectD folder on your computer.
  - This contains all the files you will need to create your first codebook.
- Create a folder for your output in c:\ProjectD\ and name it appropriately.
- For this practice, please choose to run it without Go Tos and the default stylesheet.



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## Practice 1 Output

- Did you get the expected output?
- Did you receive any errors?
- Check your log folder

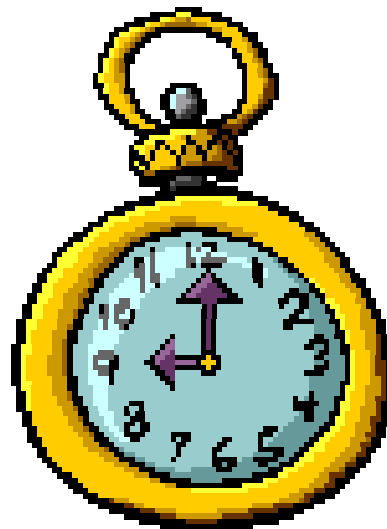


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## 10 Minute Break





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## Codebook from SAS

- Nearly the same process
  - The SAS dataset must first be processed to create XML files using SAS to XML.
- Nearly the same output
  - Blaise to SAS can be used to create a SAS dataset. Changes may then be made to the dataset that will affect the output.
  - SAS captures slightly different information, which will be reflected in the output



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## SAS to XML

The screenshot shows a Windows-style dialog box titled "SAS to XML" with a blue title bar. The main area is titled "File Selection" and contains four sections, each with a label and a text input field followed by a browse button (three dots):

- Select SAS Database (\*.SAS):** The input field is empty.
- SAS Name Length (number of characters):** There are three radio buttons: the first is labeled "8", the second is labeled "32" and is selected, and the third is unlabeled. To the right of the radio buttons is a small text input field.
- Select Datamodel (\*.BMI):** The input field is empty.
- Select Mapping File (\*.XML) (optional):** The input field is empty.
- Select Output Folder:** The input field is empty.

At the bottom right of the dialog box are three buttons: "Back", "Next", and "Exit".

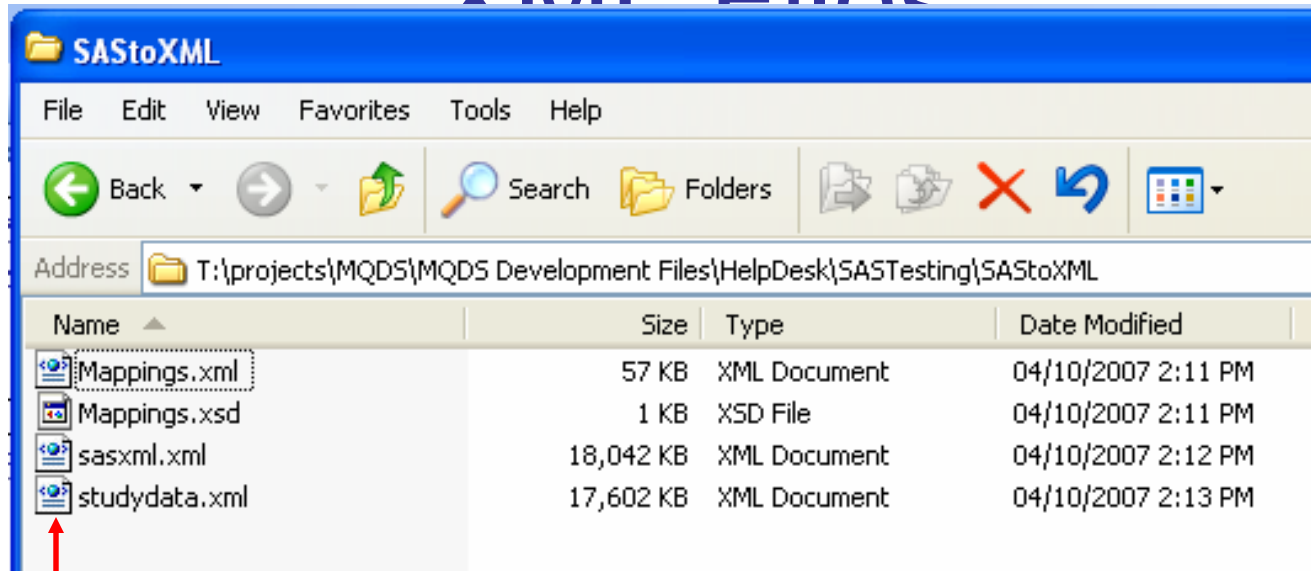


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## XML Files



This file is  
the input  
for the  
next step.



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## Codebook from SAS

File Selection

Select DataModel (\*.BMI):

Select SAS XML Data (\*.XML):

Select Help File (\*.HTML):

Select Support.mdb:

Select Fields File:

Select Output Folder:

Back Next Exit



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## Q & A





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## Accessing MQDS

SRC-Katona\Vol1\Groups\SRO Applications



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## Contacting the SRO Help Desk

- Email [help@isr.umich.edu](mailto:help@isr.umich.edu)
- Call 1-800-631-2819
- Be sure to have the following information:
  - MQDS build number
  - Data model
  - Config file or:
    - External files selected
    - Stylesheet options selected
  - Description of the Problem



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## Michigan Questionnaire Documentation System

MQDS 301: Using the MQDS Tools

April 17, 2007



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## Your Trainers

- Tricia Blanchard ([triciabl@isr.umich.edu](mailto:triciabl@isr.umich.edu))
- Heidi Guyer ([hguyer@isr.umich.edu](mailto:hguyer@isr.umich.edu))
- Ruth Philippou ([ruthph@isr.umich.edu](mailto:ruthph@isr.umich.edu))



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MQDS Michigan Questionnaire Documentation System (2.3.2.0)



MQDS Tools Help

- XML Merge
- Reapply Stylesheet
- Blaise to SAS
- XML Compare
- Compare Grid
- Sas to XML



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## How are these features used?

- **XML Merge:** used to combine output of lengthy or complex instruments
- **Re-Apply Stylesheet:** to decrease processing time and utilize previous work
- **Blaise to SAS:** to generate a SAS dataset from Blaise data
- **XML Compare:** to compare data models
- **Compare Grid:** side-by-side comparison of datamodels
- **SAS to XML:** interim step to generate codebook from SAS dataset
- **Support Database:** to expand the output via the support tables



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## Projects using MQDS & Examples of Use

- Health & Retirement Study (HRS)
- Mississippi Community Study (MCS)
- NCHS – NSAL - NLAAS
- National Study of Medical Decisions (NSMD)
- National Survey of Family Growth (NSFG)
- Panel Study of Income Dynamics (PSID)
- World Mental Health (WMH)



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## **XML Compare & Comparison Grid**

Used extensively to compare national & international projects:

- World Mental Health Study (WMH)
- Collaborative Psychiatric Epidemiology Study (CPES)
- HRS - SHARE





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## HRS - SHARE

Compare Grid - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites RSS Print Mail Wordpad Explorer

Address [\\Src-katona\\VOL1\\projects\\MQDS\\MQDS Production Projects\\SHARE\\Output\\2006-11-30\\_Comparison\\_SharePH\\_HRSC\\Grid\\Grid.html](\\Src-katona\\VOL1\\projects\\MQDS\\MQDS Production Projects\\SHARE\\Output\\2006-11-30_Comparison_SharePH_HRSC\\Grid\\Grid.html) Go Links

Google Go Bookmarks 23 blocked Check AutoLink AutoFill Send to Settings

Legend	HRS	Compare	SHARE
<b>A</b>	C231_Offset2002Interv2	0	
Added by country	C234_OFFSET1996Interv2	0	
<b>C</b>	C235_Offset2006Interv3	0	
Different response codes	C001_	Q U J C	PH001_Intro
<b>J</b>	C185_DifferentReporter	0	
Different jump	Z089_Glaucoma_A	0	
<b>N</b>	Z090_HearAid_A	0	
Note	Z101_HighBP_A	0	
<b>O</b>	Z102_Diabetes_A	0	
Country omitted item	Z103_Cancer_A	0	
<b>Q</b>	Z104_Lung_A	0	
Different question wording	Z105_Heart_A	0	
<b>U</b>	Z106_Stroke_A	0	
Different universe	Z107_Psychiatric_A	0	
	Z108_Arthritis_A	0	
	Z112_Cataract_A	0	
	Z117_MemryDisease_A	0	
	Z110_BrokeHip_A	0	
	C002_	Q U J C	PH062_CompareHealth
	Z093IwYv	0	
	<b>HRS</b>	Compare	<b>SHARE</b>
	FILLNO	0	
	FILLHAS	0	
	FILLNOTHAVE	0	
	C005_	0	
	C006_HBPMeds	0	

RESPONDENTS  
CHILDREN  
HHMEMBERS  
SIBLINGS  
PARENTS  
RTAB  
PASTPENS  
HH  
RVAR5  
RVAR52  
SCV  
SECA  
INIT  
SECA2\_INIT  
SECA2  
SECB  
SECC  
SECD  
SECE  
SECF  
SECG



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Compare Grid - Microsoft Internet Explorer

File Edit View Favorites Tools Help



Address [\\Src-katona\\VOL1\\projects\\MQDS\\MQDS Production Projects\\SHARE\\Output\\2006-11-30\\_Comparison\\_SharePH\\_HRSC\\Grid\\Grid.html](http://\\Src-katona\\VOL1\\projects\\MQDS\\MQDS Production Projects\\SHARE\\Output\\2006-11-30_Comparison_SharePH_HRSC\\Grid\\Grid.html)

Google Go Bookmarks 23 blocked Check AutoLink AutoFill Send to Settings

## Legend

- A**  
Added by country
- C**  
Different response codes
- J**  
Different jump
- N**  
Note
- O**  
Country omitted item
- Q**  
Different question wording
- U**  
Different universe

- . RESPONDENTS
- . CHILDREN
- . HHMEMBERS
- . SIBLINGS
- . PARENTS
- . RTAB
- . PASTPENS
- . HH
- . RVAR
- . RVAR2
- . SCV
- . SECA
- . INIT
- . SECA2\_INIT
- . SECA2
- . SECB
- . SECC
- . SECD
- . SECE
- . SECF
- . SECG

HRS\_SECC

Variable **C001\_**

[F1]--Help

Next I have some questions about your health.

Would you say your health is excellent, very good, good, fair, or poor?

- ☐ 1 Excellent [Goto C002\\_\\_IC\\_6](#)
- ☐ 2 Very good [Goto C002\\_\\_IC\\_6](#)
- ☐ 3 Good [Goto C002\\_\\_IC\\_6](#)
- ☐ 4 Fair [Goto C002\\_\\_IC\\_6](#)
- ☐ 5 Poor [Goto C002\\_\\_IC\\_6](#)

## Universe

((RVAR.S.Z145\_TypeExit\_V <> NEWPOSTEXIT) AND (RVAR.S.Z145\_TypeExit\_V <> FIRSTREPEATPOST)) AND (RVAR.S.Z145\_TypeExit\_V <> SECREPEATPOST)U  
puSectionTracker = BU  
(C IN puTEST) OR (23 IN puTEST)U  
(ACTIVELANGUAGE <> EXTENG) AND (ACTIVELANGUAGE <> EXTSPN)U

SHARE\_SECPH

Variable **PH001\_Intro**

Now I have some questions about your health.

- ☐ 1 1. Continue [Goto SEC\\_PH.HEALTH\\_B1.PH003\\_HEALTHGEN2](#)

## Universe

(PH IN Test) OR (22 IN Test)U



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## WMH Compare Grid

Compare Grid - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites RSS Print Mail New Tab

Address <http://webtrak.isr.umich.edu/wmh/CAP1/html/Grid.html> Go Links

Google [C](#) ND survey AND definition Go Bookmarks 23 blocked Check AutoLink AutoFill Send to codebook Settings

**Legend**

- A** Added by country
- C** Different response codes
- J** Different jump
- N** Note
- O** Country omitted item
- Q** Different question wording
- U** Different universe

- topLevel-001
- BLN\_HHL
- topLevel-002
- BLSCREENING
- topLevel-003
- BLDEPRESS
- BLMANIA
- topLevel-004
- BLIRRITDEP
- BLPANICDIS
- topLevel-005
- BLSPECPHOB
- topLevel-006
- BLSOCIAPHO
- topLevel-007

Question	Belgium_Dutch	Belgium_French	Esemed	France	Germany	Italy	Mexico	Netherlands	NewZealand	Panama	Spain
D0	UJ	UJ	UJ	UJ	UJ	UJ	U	UJ	O	U	UJ
D1	U	U	U	U	U	U	U	U	U	U	U
D1a	U	U	U	U	U	U	U	U	UJ	U	U
D1b	U	U	U	U	U	U	U	U	U	U	U
D2	UJ	UJ	UJ	UJ	UJ	UJ	U	UJ	U	U	UJ
D9	UJ	UJ	UJ	UJ	UJ	UJ	U	UJ	UJ	U	UJ
D9a	U	U	U	U	U	U	U	U	U	U	U
D9a1	U	U	U	U	U	U	U	U	UJC	U	U
D9a2	UJ	UJ	UJ	UJ	UJ	UJ	U	UJ	O	U	UJ
D10	UJ	UJ	UJ	UJ	UJ	UJ	U	UJ	UJ	U	UJ
D11	UC	UC	UC	UC	UC	UC	U	UC	O	U	UC
D12	UJ	UJ	UJ	UJ	UJ	UJ	U	UJ	U	U	UJ
D12a	UJ	UJ	UJ	UJ	UJ	UJ	U	UJ	U	U	UJ
D13	U	U	U	U	U	U	U	U	U	U	U
D14	U	U	U	U	U	U	U	U	UJ	U	U
D15	U	U	U	U	U	U	U	U	U	U	U
D16	U	U	U	U	U	U	U	U	U	U	U
D17	U	U	U	U	U	U	U	U	U	U	U
D18	U	U	U	U	U	U	U	U	U	U	U
D19	UJ	UJ	UJ	UJ	UJ	UJ	U	UJ	U	U	UJ
Question	Belgium_Dutch	Belgium_French	Esemed	France	Germany	Italy	Mexico	Netherlands	NewZealand	Panama	Spain
D20	UJ	UJ	UJ	UJ	UJ	UJ	U	UJ	U	U	UJ
D21	UJ	UJ	UJ	UJ	UJ	UJ	UJ	UJ	UJ	UJ	UJ
D22	U	U	U	U	U	U	U	U	U	U	U

Done Local intranet



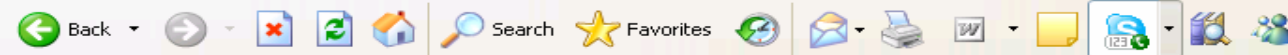
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Compare Grid - Microsoft Internet Explorer

File Edit View Favorites Tools Help



Address <http://webtrak.isr.umich.edu/wmh/CAP1/html/Grid.html>

Google [ND survey AND definition](#) Go [23 blocked](#) [Check](#) [AutoLink](#) [AutoFill](#) [Send to](#) [codebook](#) [Settings](#)

## Legend

- A**  
Added by country
- C**  
Different response codes
- J**  
Different jump
- N**  
Note
- O**  
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Different question wording
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- topLevel-001
- BLN\_HHL
- topLevel-002
- BLSCREENING
- topLevel-003
- BLDEPRESS
- BLMANIA
- topLevel-004
- BLIRRITDEP
- BLPANICDIS
- topLevel-005
- BLSPECPHOB
- topLevel-006
- BLSOCIAPHO
- topLevel-007

## NATIONAL SURVEY OF HEALTH AND STRESS SC21

### NCS\_R Variable SC21

SC21

Have you ever in your life had a period of time lasting several days or longer when most of the day you felt sad, empty or depressed?

- ☐ 1 YES
- ☐ 5 NO
- ☐ .D DON'T KNOW
- ☐ .R REFUSED

### Universe

[BLN\\_HHL.HU9](#) > 0  
[SC19](#) = C01

### Belgium\_Dutch Variable SC21

SC21

Heeft u ooit in uw leven een periode van een aantal dagen of langer gehad waarin u zich het grootste deel van de dag somber, leeg of depressief voelde?

- ☐ 1 JA
- ☐ 5 NEE [Goto BLSCREENING.SC22](#)
- ☐ .D DON'T KNOW [Goto BLSCREENING.SC22](#)

Done

Local intranet



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Now for the **technical** portion of the training...



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## System Requirements

- Windows XP or Windows 2000
- The .Net 2.0 Framework must be installed.
- The J# Redistributable Package must be installed.
- SAS 9.1
- Available HD space – enough for the application to install, plus enough to process the project you are using
  - A useful rule of thumb is to have at least 1GB available. This is not usually a problem with university computers.
- At least 1 GB of RAM



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## Input Requirements

Required to create a questionnaire:

- Blaise datamodel (all \*.bmi, \*.bdm, \*.bxi files, including external lookups)

Required for other utilities:

- Blaise database (\*.bdb)
- SAS data set (\*.sas7bdat)





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## Reapply Style Sheet

This feature can be used to apply a style sheet to an XML source file, creating either HTML or RTF output.

- Note that RTF output is currently available only for Questionnaires.





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## Why Reapply a Style Sheet?

- You used the wrong style sheet.
- You want to change the options you selected.
- A new style sheet has been created.
- You merged the output from two or more runs.
- You have run a comparison on two or more datamodels



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## How to Reapply a Style Sheet

- Select an XML file (usually named following the *[datamodel]\_[language].xml* convention).
- Select an output folder.
- Select a stylesheet.
- Select a config file.
- If desired, click on Settings and change the Stylesheet Options. Be sure to Save.
- Click on “Process”.



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## Reapply Stylesheet

MO Reapply Stylesheet

Input XML File

Output Folder

Stylesheet File

Settings File

Process View Stylesheet Help Settings Exit

Ready



## XML Merge

XML Merge – merges XML files, allowing you to process a complicated or large data model in small steps.

This can be very useful if you find that your data model is taking too long to process.

Once you have completed your merge, you will need to reapply a stylesheet.



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## Using XML Merge

- If necessary, create the XML files to be merged by running codebooks or questionnaires.
- Move the *[datamodel]\_[language].XML* files to the same directory.
  - Note that it will be necessary to rename one or more of these files.



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## Using XML Merge

- Open the XML Merge utility.
- Select the directory containing your files to be merged, then specify which files are to be used in this run.
- Specify an output file.
- Click Process.
- Reapply a style sheet to the merged file.

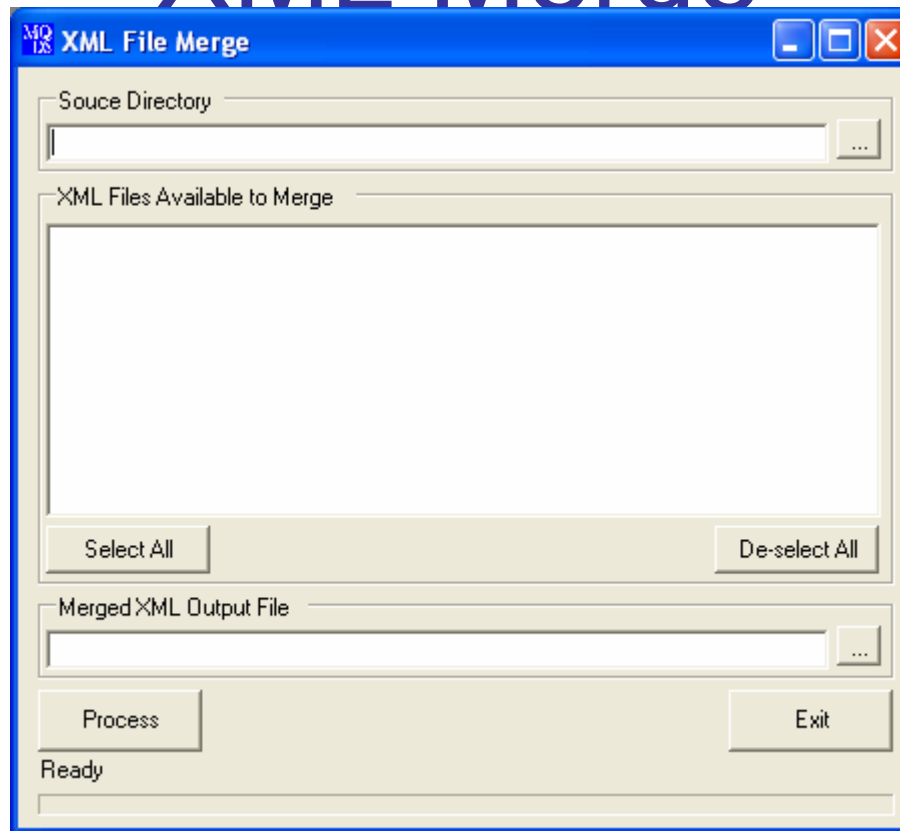


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## XML Merge





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## Blaise to SAS

Blaise to SAS – convert data to a SAS dataset





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## File Selection

**Blaise to SAS**

New Open Save SaveAs

File Selection

Blaise database to use:  ...

External Search Path (Select this only if the external lookup files are in a different directory):  ...

Output Directory:  ...

☐ Data Dictionary Only ☐ Use tags instead of field names ☐ Generate remarks

Root name for files (30 character max): ☐ Generate open ends

DK/RF Option

☒ .D/.R ☐ Custom DK/RF DK:  RF:

☐ 8/9

Back Next Exit



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## File Selection

- Select the Blaise database you wish to use.
- The external search path will complete automatically.
- Select an output directory.
- Enter a root name for files.
- Make other selections as desired.



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## Block Selection

Block Selection

☐ MQDSTRAIN

- ☐ SECTION\_HHL
- ☐ HHLIST
- ☐ SECTION\_A
- ☐ SECTION\_B
- ☐ SECTION\_C
- ☐ SECTION\_D

Back Next Exit



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## Block Selection

- Select all blocks by clicking on the top square, or select individual blocks by clicking on the square next to the block name.



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## Field Selection

Field Selection

Available fields		Fields to exclude
SampleID Address Flip_Code U_Code V_Code VersionDate VersionTime CurrentSecs TotalSecs IwStartDate IwCurrDate TS_BeginIw/ AddrConfirm Section_HHL.HHL_INTRO1 Section_HHL.HHLISTTABLE.HUSBCount Section_HHL.HHLISTTABLE.WIFECOUNT Section_HHL.HHLISTTABLE.HHLISTBLOCK[1].HHL Section_HHL.HHLISTTABLE.HHLISTBLOCK[1].HHL	<div>&gt;&gt; &lt;&lt; &lt;&lt; All</div>	

Back Process Exit



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## Field Selection

- Select fields to exclude from the dataset by moving them to the box on the right.
- Fields can be excluded to remove identifying respondent data.
- Click Process.

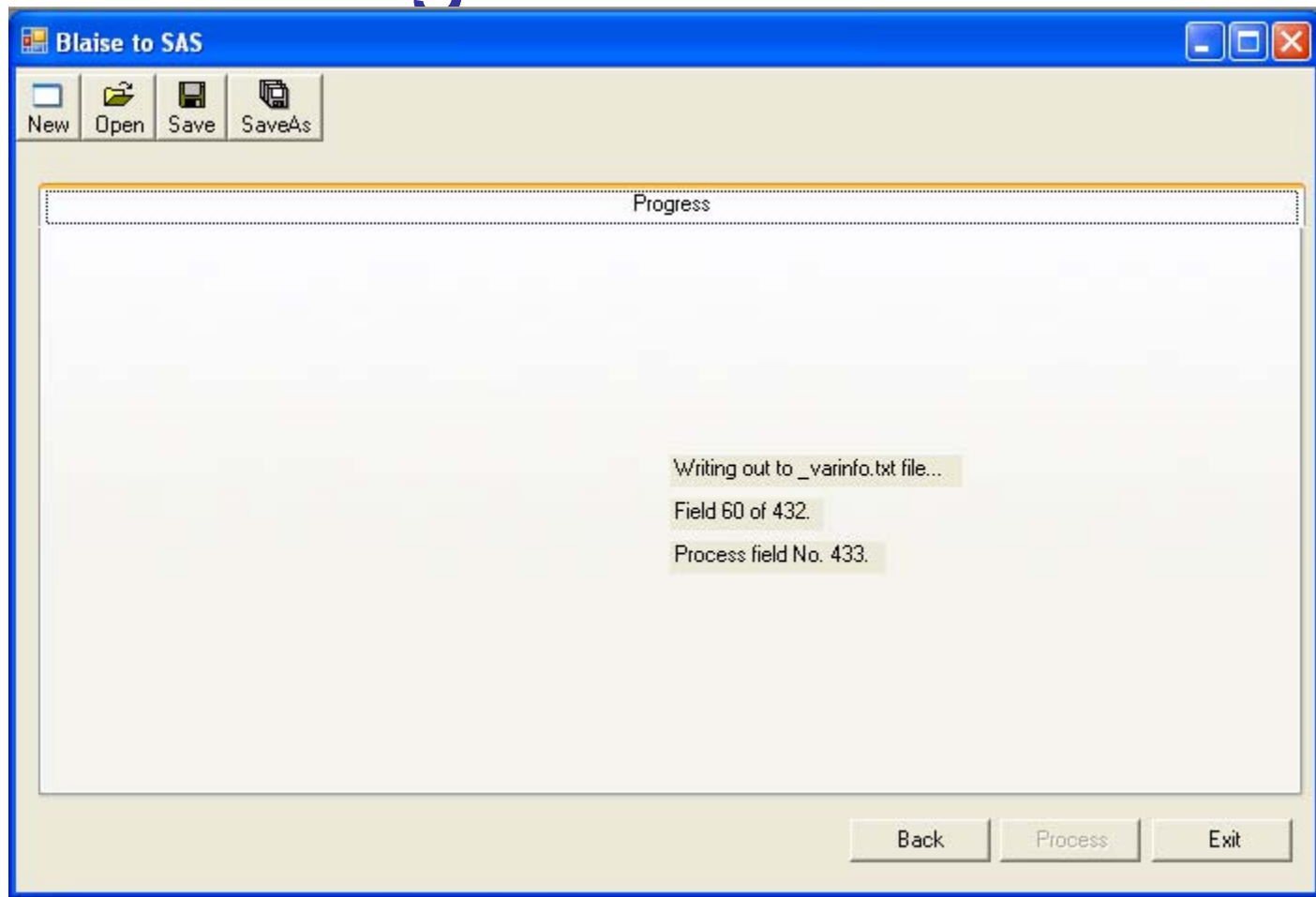


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## Progress Window





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## SAS to XML

- This is an interim step necessary to create a codebook from SAS.





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## SAS to XML

The screenshot shows a Windows-style dialog box titled "SAS to XML" with a blue title bar. The main area is titled "File Selection" and contains four sections, each with a label and a text input field followed by a browse button (three dots):

- Select SAS Database (\*.SAS):** The input field is empty.
- SAS Name Length (number of characters):** There are three radio buttons: the first is labeled "8", the second is labeled "32" and is selected, and the third is unlabeled. To the right of the radio buttons is a small text input field.
- Select Datamodel (\*.BMI):** The input field is empty.
- Select Mapping File (\*.XML) (optional):** The input field is empty.
- Select Output Folder:** The input field is empty.

At the bottom right of the dialog box are three buttons: "Back", "Next", and "Exit".

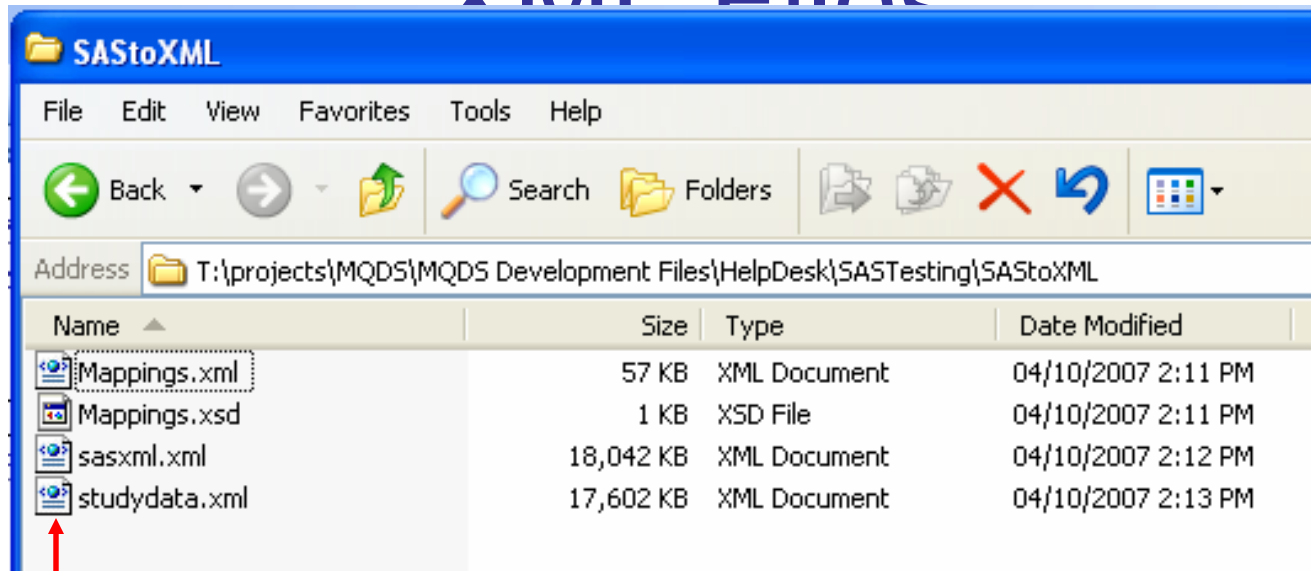


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## XML Files



This file is  
the input  
for the  
next step.



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## XML Compare and CompareGrid

- XML Compare allows you to compare questionnaire information from one datamodel against another.
- CompareGrid creates a grid based on multiple XML Compare results.
- These functions can be useful in tracking datamodel changes over time or differences between related projects.



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## Before You Start

- Select a datamodel to use as the control (the one that all others will be compared to).
- Determine how many datamodels you are comparing.
  - These datamodels should come from the same project, but they may be from different years or different countries.
  - If you wish to compare datamodels from different projects that have similar content but different variable names, you will need to use the support database.



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## Compare: Step 1

**Create questionnaires for each datamodel you wish to compare.**

- Use a config file to ensure consistency.
- Use a naming convention for the output folders.
- Avoid using spaces, punctuation and other special characters in naming files.



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## Compare: Step 2

**Create an “umbrella” compare folder to contain all of your output and move the questionnaires into it.**

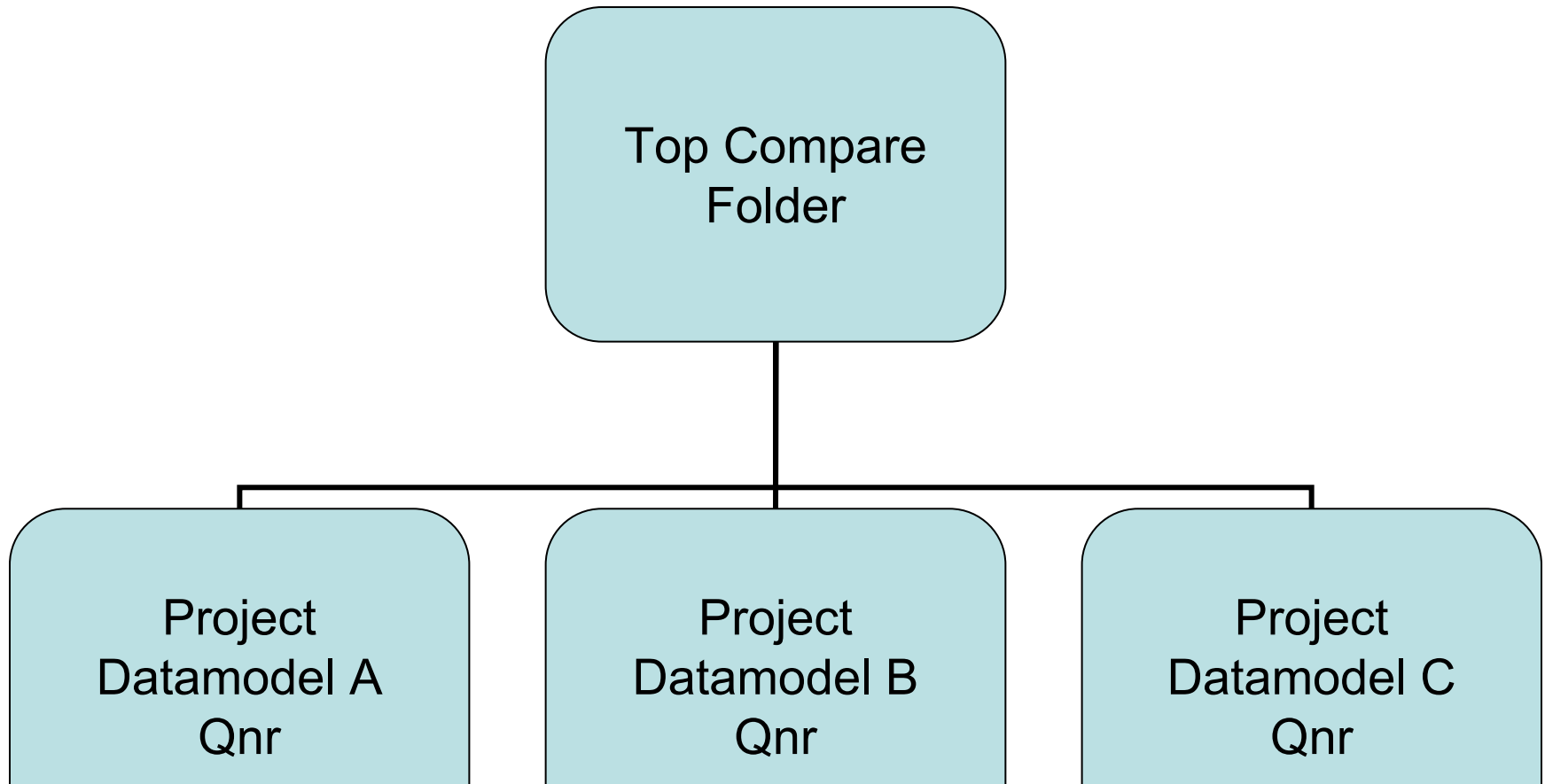


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## Folder Structure After Step 2







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## Compare: Step 3

**Create one new folder beneath the main folder for each set of comparisons, then add subfolders (see next diagram).**

- If you are comparing 3 datamodels, you will need 2 folders; if comparing 4 datamodels, you will need 3 folders.
- Name these folders following a consistent naming convention. For example, compare\_A\_B and compare\_A\_C, or compare\_US\_UK and compare\_US\_CA.



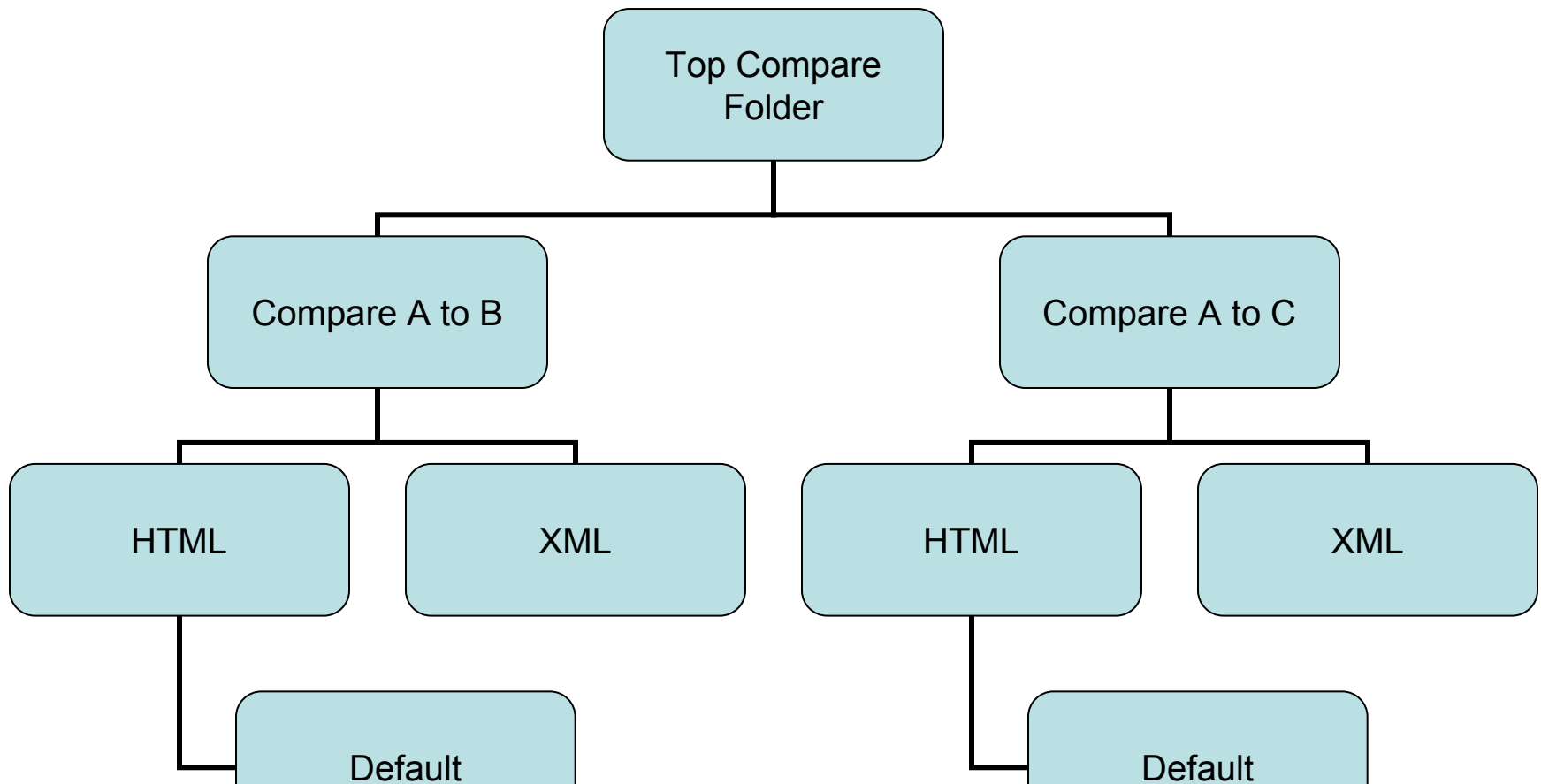


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## Folder Structure After Step 3





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## Compare: Step 4

### Run XML Compare for each set of comparisons.

- The “A” datamodel should always be the first one selected.
- The output XML file should be saved in the XML folders created in the step above. The path to it will look like [Top Compare Folder]>[Compare A to B]>[XML]>[compare\_A\_B].xml



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## XML Compare

The screenshot shows the XMLCompare application window. It has a title bar with the text 'XMLCompare' and standard window controls. The main interface is divided into several sections:

- First Xml File:** A text input field with a browse button (...), a 'Relative Path' text input field, and a 'Description' text input field. Below this is a label 'dir 1 output'.
- Second Xml File:** A text input field with a browse button (...), a 'Relative Path' text input field, and a 'Description' text input field. Below this is a label 'dir 2 output'.
- Output Xml File:** A text input field with a browse button (...), a 'Relative Path' text input field, and a 'Description' text input field. Below this is a label 'dir 3 output'.
- Select Support.mdb:** A text input field with a browse button (...).
- Processing options:** A group box containing six checkboxes:
  - ☐ Compare question te
  - ☐ Compare category text
  - ☒ Compare jump
  - ☒ Save mismatched questions
  - ☒ Save mismatched condition
- Buttons:** 'Compare' and 'Done' buttons are located to the right of the processing options.
- Progress:** A label 'Progress' is above a progress bar at the bottom of the window.

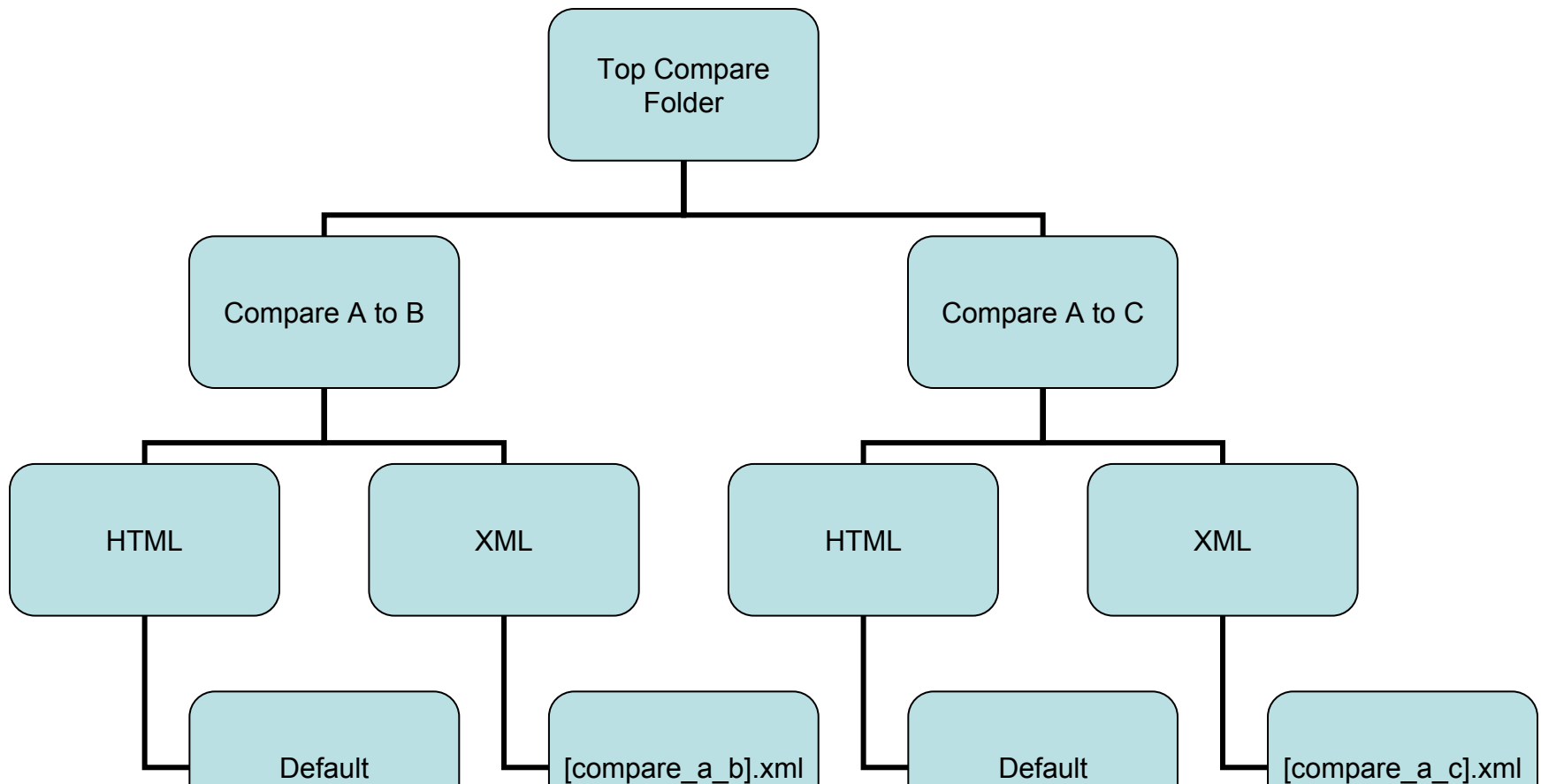


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## Folder Structure After Step 4





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## Compare: Step 5

**Apply stylesheets to each comparison  
xml file.**



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## Reapply Stylesheet

MO Reapply Stylesheet

Input XML File

Output Folder

Stylesheet File

Settings File

Process View Stylesheet Help Settings Exit

Ready

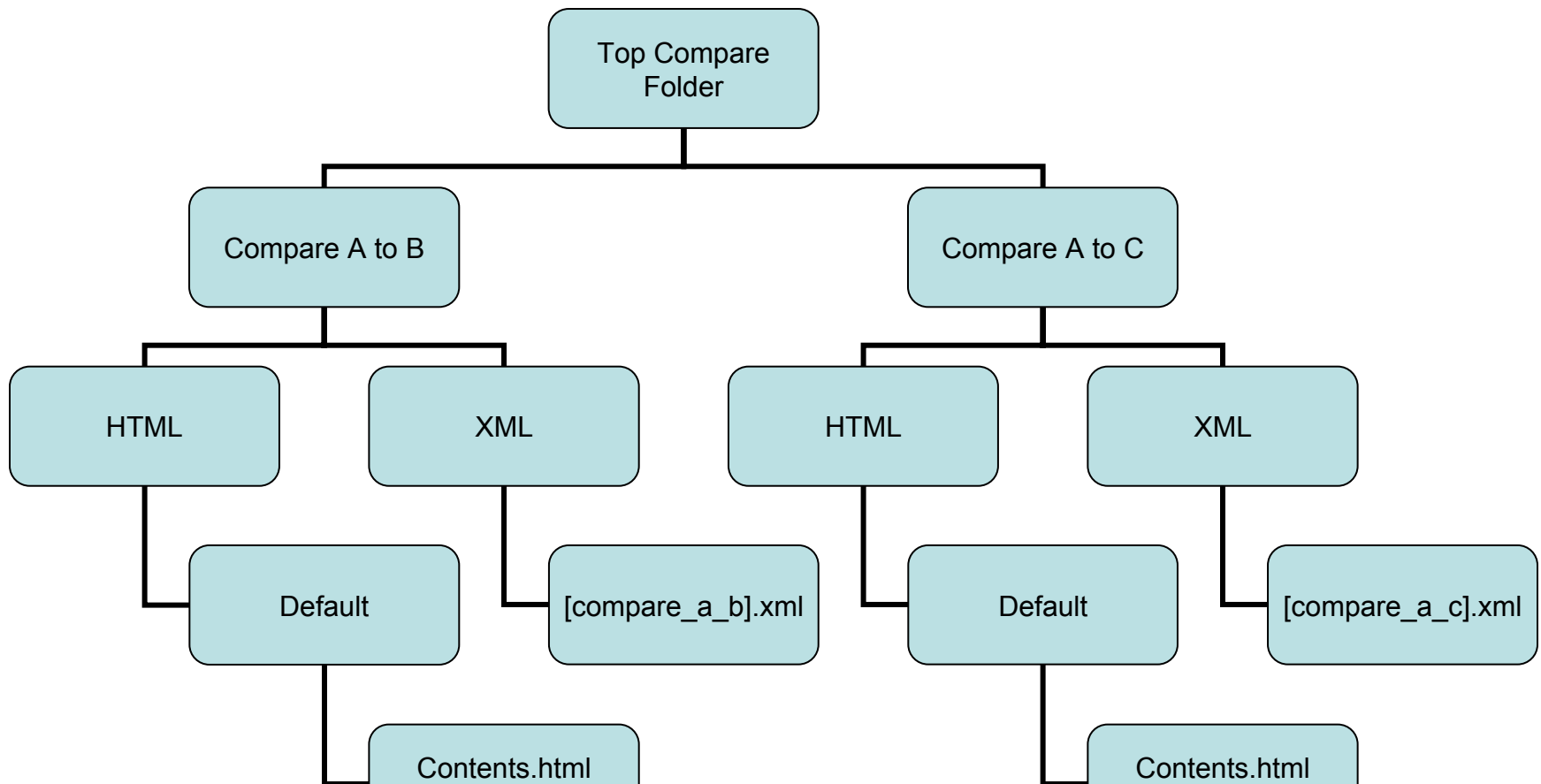


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## Folder Structure After Step 5





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## Compare: Step 6

**Copy each comparison file into the top most XML directory (see next diagram).**

- Compare Grid runs on the assumption that all comparison XML files are in the same directory.



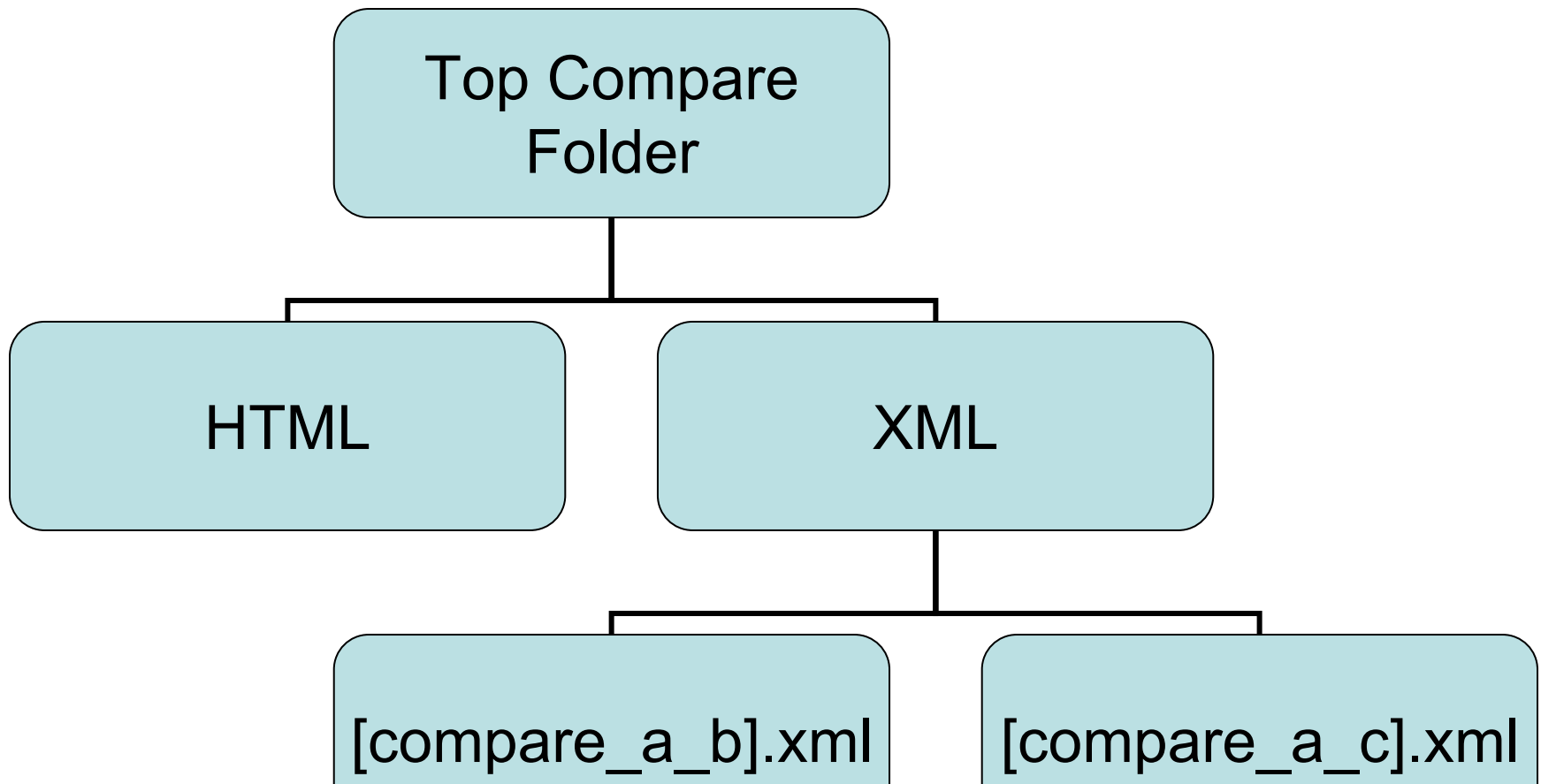


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## Folder Structure After Step 6





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## Compare: Step 7

### Run CompareGrid.

- The output XML file should be named Grid.xml and saved to the topmost XML folder.
- The output HTML folder should be the topmost HTML folder.



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## Compare Grid

The screenshot shows the CompareGrid application window. The title bar is blue with the text 'CompareGrid' and standard window controls. The main area is light beige. At the top, there's a text box for 'Select a comparison XML File from XMLCompare' with a browse button. Below this is a 'Group' list box and a 'Select File' text box, with an 'Update Group' button between them. To the right of the 'Select File' box is an 'Add To List' button. Below the 'Group' list box is a 'Remove From List' button. Further down are three more text boxes with browse buttons: 'Save XML Output File:', 'Select HTML Output Folder:', and 'Select a Grid Stylesheet'. The 'Select a Grid Stylesheet' box contains the path 'C:\Program Files\MQDS\support\grid.xml'. At the bottom, there's a 'Progress' bar and two buttons: 'Process' and 'Exit'.

MQDS CompareGrid

Select a comparison XML File from XMLCompare

...

Update Group

Add To List

Group

Select File

Remove From List

Save XML Output File:

...

Select HTML Output Folder:

...

Select a Grid Stylesheet

C:\Program Files\MQDS\support\grid.xml

...

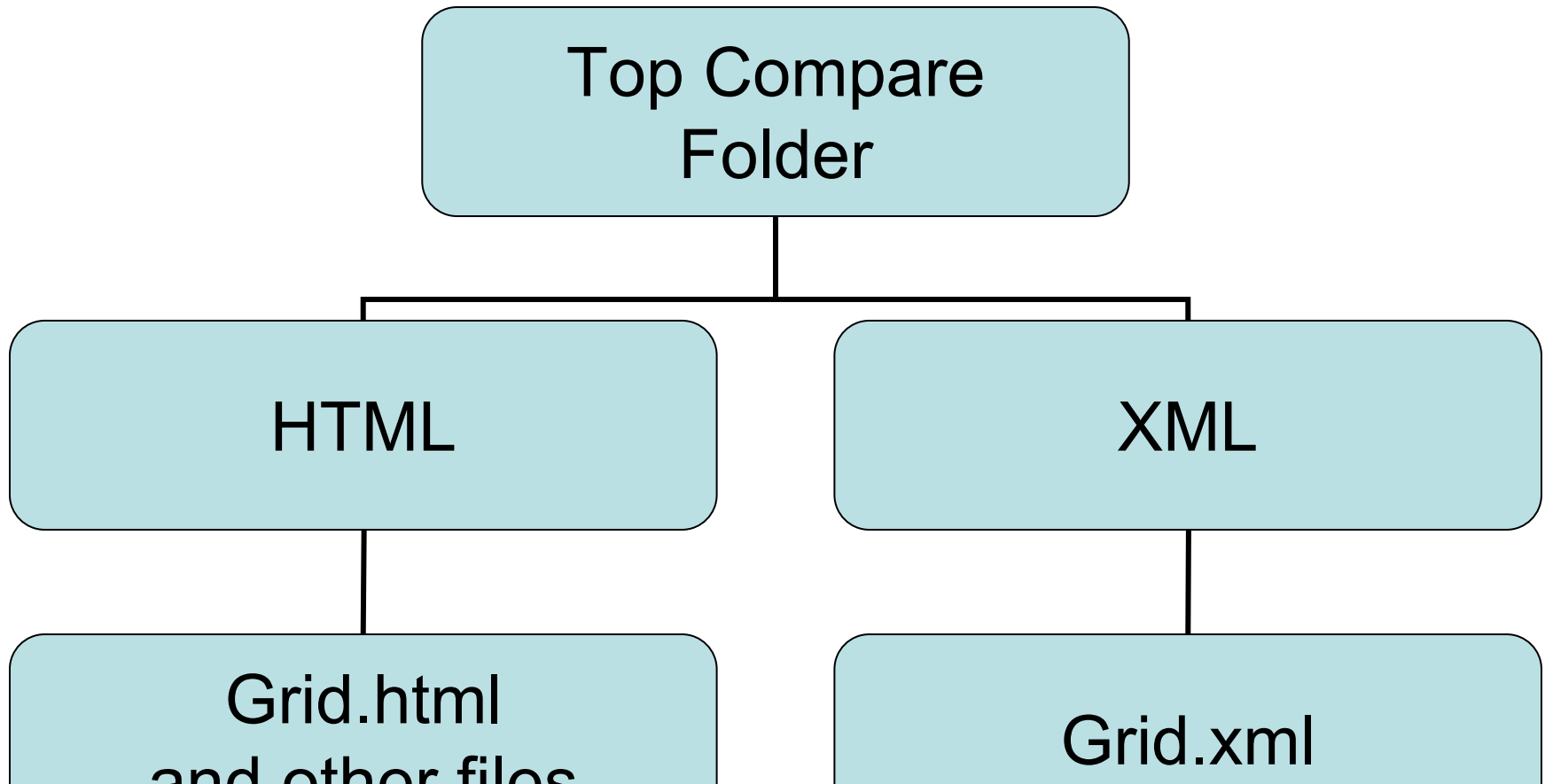
Progress

Process

Exit



## Folder Structure After Step 7



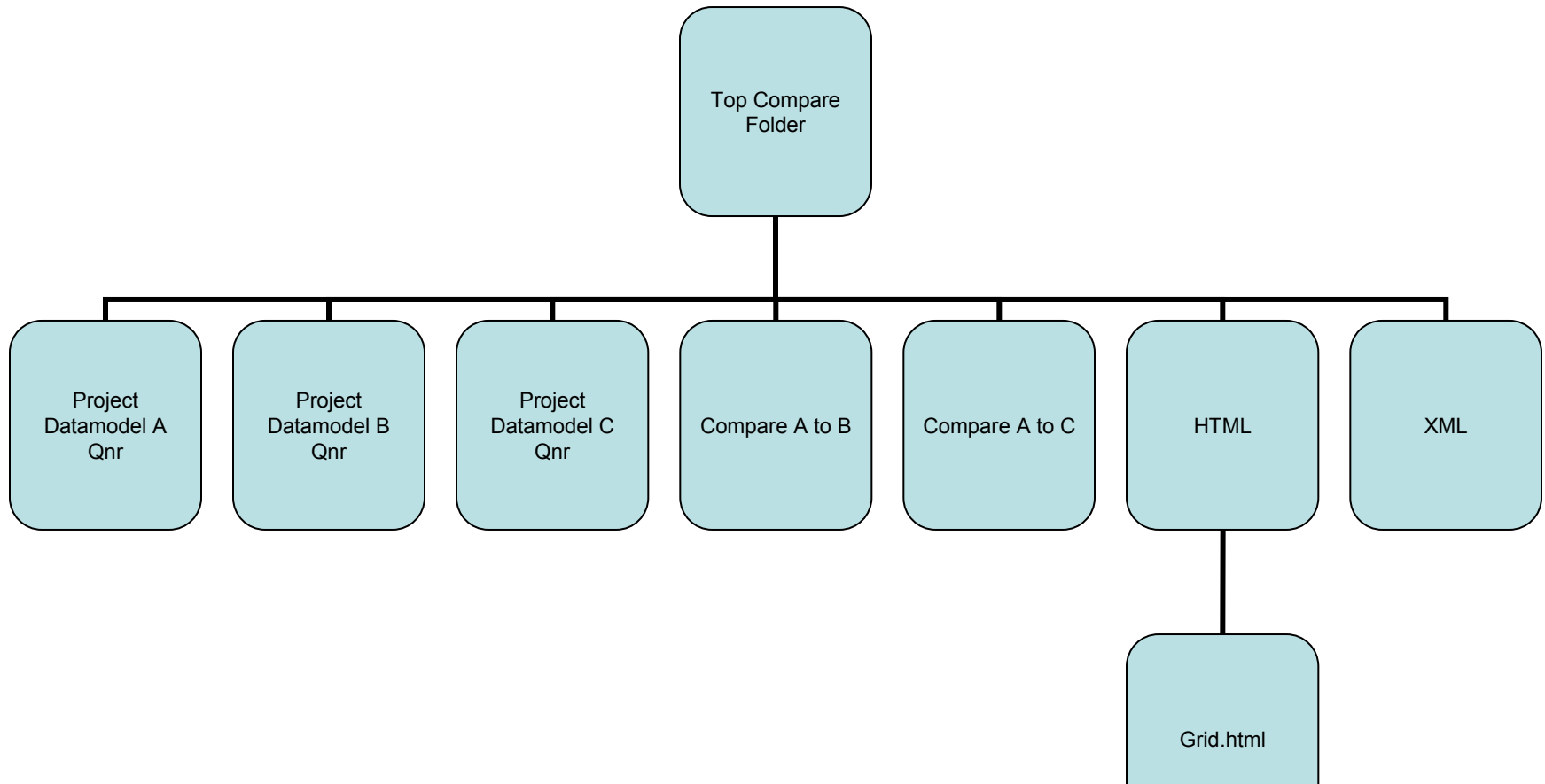


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## Folder Structure Overview







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# WMH Compare Grid-Depression Section

[illegible]



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## Examples of Differences





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## Support Database

- A blank copy of the database comes with MQDS.
  - C:\Program Files\MQDS\support.mdb
  - Copy this file to the folder containing your project data.
  - A working knowledge of MS Access is recommended.



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## Support Database RBLink Table

	RBNNumber	Fieldname	RBText	Note	HTMLName	HTMLLink
	0	AddrConfirm	63.81			projectd.xls
	0	IWVComplete	03.00			projectd.xls
	0	Section_A.A0	123.33			projectd.xls
	0	Section_B.B_Intro	08.19			projectd.xls
	0	Section_B.B1	06.70			projectd.xls
	0	Section_B.B11	23.75			projectd.xls
	0	Section_B.B13	12.77			projectd.xls
	0	Section_B.B14	10.59			projectd.xls
	0	Section_B.B15	09.93			projectd.xls
	0	Section_B.B16	12.51			projectd.xls
	0	Section_B.B17	14.94			projectd.xls
	0	Section_B.B18	07.17			projectd.xls
	0	Section_B.B19	50.47			projectd.xls

Variable name

Text displayed as link

URL or filename



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## Output Using RBLink Table

**D1**

The next questions are about money orders and other ways of making payments. Have you purchased a money order at least once during the last 12 months?

☐ 1 Yes

☐ 5 No

**External Links**

**11.33**



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## Q&A



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## Accessing MQDS

SRC-Katona\Vol1\Groups\SRO Applications



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## Contacting the SRO Help Desk

- Email [help@isr.umich.edu](mailto:help@isr.umich.edu)
- Call 1-800-631-2819
- Be sure to have the following information:
  - MQDS build number
  - Data model
  - Config file or:
    - External files selected
    - Stylesheet options selected
  - Description of the Problem