

Exploration of Blaise Instrument Generation from Metadata

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statistics for informed

decision making

Presented by Juanita Pettit

Hi! from Fred



Outline

- Background
- Instrument Data Model
- Demonstration
- Conclusions

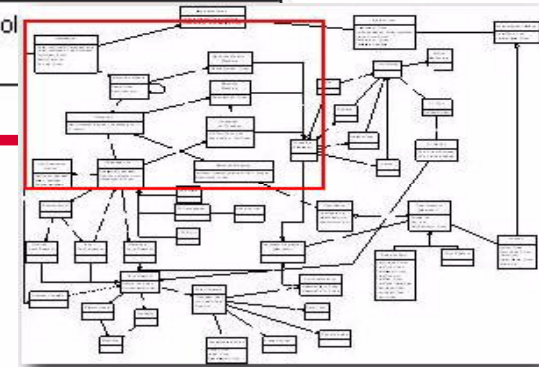
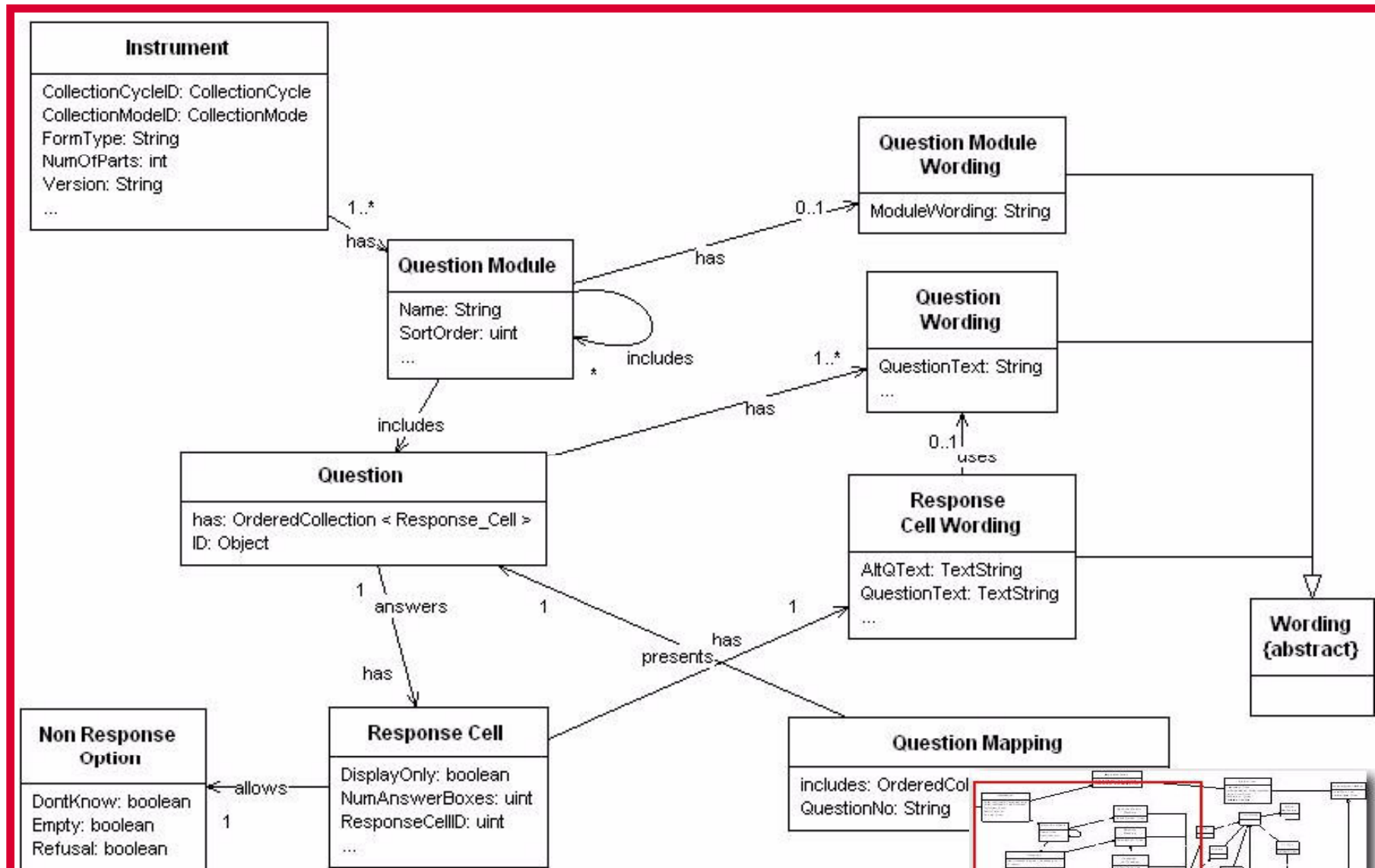
Background

- Developing Blaise instruments for 12 yrs
 - CAPI
 - CATI
 - Editing (data collected via paper forms)
- Corporate Metadata Repository
 - based on ISO 11179
 - currently developing for "data elements"
 - next step to add "questions"

Why generate code?

- take advantage of systems infrastructure
- give more control over content to designers
 - avoid duplication of effort
 - minimise errors
- consistency between instrument and spec
- reuse of data element/question definitions
 - e.g. multi-modal surveys
- implement standards
- to save time

Instrument Data Model



Survey Form

Part 2 – Employment

Definition

- Full-time persons are those working 35 hours or more per week.

3 Number of persons working for this business during the last pay period ending in June 2007

Including

- Persons paid a retainer, wage or salary
- Managerial and executive employees
- Employees absent on paid or prepaid leave
- Employees on workers' compensation who continue to be paid through the payroll

Excluding

- Casuals who did not work in the last pay period ending in June 2007
- Non-salaried directors
- Self-employed persons such as consultants and contractors who are not employees, working proprietors or partners of this business
- Persons paid by commission only
- Volunteers

	Male	Female
(a) Working proprietors and partners if this business is an unincorporated business (e.g. sole trader, partnership or joint venture)	<input type="text"/>	<input type="text"/>
(b) Salaried directors if this business is an incorporated business (e.g. Pty Ltd company)	<input type="text"/>	<input type="text"/>
(c) Other employees		
(i) Permanent full-time	<input type="text"/>	<input type="text"/>
(ii) Permanent part-time	<input type="text"/>	<input type="text"/>
(iii) Casual	<input type="text"/>	<input type="text"/>
(d) Total number of persons	<input type="text"/>	<input type="text"/>

Question
Module

Question

Response
Cells

Question Mapping

Part 2 – Employment			
<p><i>Definition</i></p> <ul style="list-style-type: none"> Full-time persons are those working 35 hours or more per week. 			
<p>3 Number of persons working for this business <u>during the last pay period ending in June 2007</u></p>			
<p><i>Including</i></p> <ul style="list-style-type: none"> Persons paid a retainer, wage or salary Managerial and executive employees Employees absent on paid or prepaid leave Employees on workers' compensation who continue to be paid through the payroll 	<p><i>Excluding</i></p> <ul style="list-style-type: none"> Casuals who did not work in the last pay period ending in June 2007 Non-salaried directors Self-employed persons such as consultants and contractors who are not employees, working proprietors or partners of this business Persons paid by commission only Volunteers 		
		Male	Female
(a) Working proprietors and partners if this business is an unincorporated business (e.g. sole trader, partnership or joint venture)		<input type="text"/>	<input type="text"/>
(b) Salaried directors if this business is an incorporated business (e.g. Pty Ltd company)		<input type="text"/>	<input type="text"/>
(c) Other employees			
(i) Permanent full-time		<input type="text"/>	<input type="text"/>
(ii) Permanent part-time		<input type="text"/>	<input type="text"/>
(iii) Casual		<input type="text"/>	<input type="text"/>
(d) Total number of persons		<input type="text"/>	<input type="text"/>

MAGIC

M etadata

A ssisted

G eneration (of)

I nstrument

C ode



MAGIC Main screen

MAGIC - Main screen

Instruments

Name	Maj	Min	Rel	Mth	Survey
▶ Demo_1SACL	1	00	1	NA	Accommodation

1:1

Metadata management

Generation

[An entertainment of utmost regard am I]

Import file (.csv)

Question wording	Description	System Name	Qnum	Type	Prefix	Suffix	Instr
@bPart 1 - General information		H_PART_A		header			
Australian Business Number reported	ABN Reported	ABNREP		ABN			
@bWhich of the following best describes this business?		T_BUS	1	text			@eTick
(a) Licensed hotels	Describe business	DESHOTEL		tick			
(b) Motels	Describe business	DESMOTEL		tick			
(c) Serviced apartments	Describe business	DESERVAPART		tick			
(d) Holiday parks/caravan parks/camping ground	Describe business	DESHOLPARK		tick			
(e) Visitor hostels	Describe business	DESVISITHOSTEL		tick			
(f) Bed and breakfast establishments	Describe business	DESBEDBREAK		tick			
(g) Resorts	Describe business	DESRESORT		tick			
(h) Other accommodation establishments	Describe business	DESOTHACCOMM		tick			
Please specify		T_DESCOTHACCOM		text			
	Describe business	DESOTHACCOMM_S		specify			
@bNumber of accommodation establishments and number of rooms operated by this business at 30 June 2007	qtext + 1st column	TQ2_TEXT	2	text			@e@=M
	2nd column header	TQ2_COLH2		text			@e@=M
(a) Licensed hotels	Licensed hotels - n	LICHOT_EST		positive			
	Licensed hotels - n	LICHOT_ROOM		positive			
(b) Motels	Motels - number of	MOTEL_EST		positive			
	Motels - number of	MOTEL_ROOM		positive			
(c) Serviced apartments	Serviced apartment	SERAPART_EST		positive			
	Serviced apartment	SERAPART_ROOM		positive			
(d) Holiday parks/caravan parks/camping ground	Holiday/caravan pa	HOLPARK_EST		positive			
(e) Visitor hostels	Visitor hostels - nu	VISHOST_EST		positive			
	Visitor hostels - nu	VISHOST_ROOM		positive			
(f) Bed and breakfast establishments	Bed and breakfast	BEDBREAK_EST		positive			
	Bed and breakfast	BEDBREAK_ROOM		positive			
(g) Resorts	Resorts - number c	RESORT_EST		positive			

Import screen

MAGIC - Import dialog

Demo_IBUC2007_1_001 Importing

Import/Export file

C:\Data\Blaise\ESG-SIS\1SACL\SIS METADATA 1SACL.CSV

Column identification
(1 to 20)

<input checked="" type="checkbox"/>	3	System name
<input checked="" type="checkbox"/>	2	Description
<input checked="" type="checkbox"/>	5	Data type
<input checked="" type="checkbox"/>	4	Question number
<input checked="" type="checkbox"/>	1	Main question text
<input checked="" type="checkbox"/>	8	Instructions
<input type="checkbox"/>		Help text
<input type="checkbox"/>		Alternate text
<input type="checkbox"/>		Minimum value
<input type="checkbox"/>		Maximum value
<input type="checkbox"/>		Category defn
<input type="checkbox"/>		Method (ask/show/keep)
<input type="checkbox"/>		Column
<input type="checkbox"/>		Lines
<input type="checkbox"/>		Blockname
<input checked="" type="checkbox"/>	6	Prefix
<input checked="" type="checkbox"/>	7	Suffix

Other parameters

Lines to skip

MAGIC - Main screen

Instruments

Name	Maj	Min	Rel	Mth	Survey
▶ Demo_IBUC2007	1	00	1	NA	Accommodation

1:1

Metadata management

New

Import

Edit

Analyse

Report

exPort

Delete

Generation

Blocks

Modules

Instrument

eXit

[Estimate fragment or dominant nature]



Analyse output

Demo_IBUC2007_1_001-Analysis.txt - Notepad

File Edit Format View Help

Analysis for Demo_IBUC2007_1_001 on 15-09-2007 at 7:42 PM
Table of data element types found

Code	Column	Lines	Number	Description
A	0	2	1	ABN number
F	0	1	2	Formatted date
G	0	4	2	Percent
H	0	3	0	Header (text)
H	0	2	3	Header (text)
H	0	1	2	Header (text)
K	0	3	0	Tick Box
K	0	2	4	Tick Box
K	0	1	7	Tick Box
N	0	1	3	Positive / negative integer (number)
P	0	4	1	Positive integer (number)
P	0	3	3	Positive integer (number)
P	0	2	19	Positive integer (number)
P	0	1	42	Positive integer (number)
S	0	4	0	Specify text
S	0	3	1	specify text
S	0	2	6	Specify text
S	0	1	6	Specify text
T	0	4	3	Text only
T	0	3	2	Text only
T	0	2	5	Text only
T	0	1	7	Text only
.	0	1	1	
====			=====	
Total			120	

Name check for Demo_IBUC2007_1_001 on 15-09-2007 at 7:42 PM

*** Some non-unique names found

TIMEMINS (2)

=====
Total non-unique element names found : 1



Part 5 : Comments

Supply a unique system name for your data element

	System name	Description	Type	Code	Variant	Description	Minimum value
c[7]	T_COMMENT3	Comment 3	text	T	NA	Text only	
c[8]	COMMENT3		specify	S	NA	Specify text	
c[9]	T_TIMETAKEN		text	T	NA	Text only	
c[10]	TIMEHRS	Time taken - hours	number	N	NA	Positive / negative integer (
c[11]	TIMEMINS	Time taken - minutes	number	N	NA	Positive / negative integer (
c[12]	TIMEMINS	Time taken - minutes	number	N	NA	Positive / negative integer (
c[13]							
c[14]							

MAGIC - Main screen

Instruments

Name	Maj	Min	Rel	Mth	Survey
▶ Demo_IBUC2007	1	00	1	NA	Accommodation

1:1

Metadata management

New

Import

Edit

Analyse

Report

exPort

Delete

Generation

Blocks

Modules

Instrument

>>> Specs loaded : 9

eXit

[Meta-information trust and agreement]



- ESG-SIS
 - 1SACL
 - Include
 - 1SACL2
 - Accommodation
 - Music&Theatre
 - include
 - MAGIC
 - Shared
 - ESG-SMVU
 - ESG-Utilities
 - CodeGeneration
 - ConvertSpecs
 - Copy of MAGIC3
 - FieldList
 - GenTemplates
 - MAGIC
 - PSC_Testing
 - RenameFields
 - RenameFieldsv1.001
 - RenumberModule
 - TestRun
 - windiff
 - External
 - IFU_CALL_Scheduler
 - MDIA-POC
 - MPS0707withNewManipulas
 - PrepareZips
 - PSG-Utilities
 - Samples
 - sih07
 - StdSurveyESG
 - sysfiles
 - sysfiles for magic

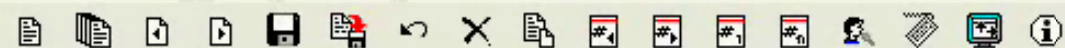
Name	Size	Type	Date Modified
Include		File Folder	09/09/2007 8:08 PM
1SACL 2007.pdf	257 KB	Adobe Acrobat Doc...	03/09/2007 11:42 AM
Blocklist.txt	1 KB	Text Document	09/09/2007 9:21 PM
Demo_IBUC2007_1_001.bdm	98 KB	BDM File	09/09/2007 8:11 PM
Demo_IBUC2007_1_001.BDP	1 KB	BDP File	09/09/2007 9:22 PM
Demo_IBUC2007_1_001.bfi	1 KB	BFI File	09/09/2007 8:11 PM
Demo_IBUC2007_1_001.bjk	1 KB	BJK File	09/09/2007 8:11 PM
Demo_IBUC2007_1_001.BLA	30 KB	Blaise Datamodel So...	09/09/2007 9:22 PM
Demo_IBUC2007_1_001.bmi	221 KB	Blaise Prepared Dat...	09/09/2007 8:11 PM
Demo_IBUC2007_1_001.BPF	1 KB	Blaise Project File	09/09/2007 9:24 PM
Demo_IBUC2007_1_001.bpk	1 KB	BPK File	09/09/2007 8:11 PM
Demo_IBUC2007_1_001.buf	1 KB	BUF File	09/09/2007 8:11 PM
Demo_IBUC2007_1_001.bxi	22 KB	BXI File	09/09/2007 8:11 PM
FINAL SIS METADATA 1SACL.CSV	12 KB	Microsoft Office Exc...	09/09/2007 8:07 PM
GeneratedBlocks.BLA	83 KB	Blaise Datamodel So...	24/05/2007 5:45 PM
LocalBlocks.INC	1 KB	INC File	09/09/2007 9:22 PM
LocalHistory.INC	1 KB	INC File	09/09/2007 9:22 PM
LocalName.INC	1 KB	INC File	09/09/2007 9:22 PM
LocalParallel.INC	1 KB	INC File	09/09/2007 9:22 PM
LocalPartCalls.INC	1 KB	INC File	09/09/2007 9:22 PM
LocalPartDefs.INC	1 KB	INC File	09/09/2007 9:22 PM
LocalTableDefs.INC	1 KB	INC File	09/09/2007 9:22 PM
LocalUses.INC	1 KB	INC File	09/09/2007 9:22 PM
PIMSBlocks.INC	1 KB	INC File	09/09/2007 9:22 PM
SIS METADATA 1SACL.CSV	10 KB	Microsoft Office Exc...	09/09/2007 8:52 PM



Part 1 : General

Supply a unique system name for your data element

	System name	Description	Type	Code	Variant	Description	Minimum value
c[1]	H_PART_A		header	H	NA	Header (text)	
c[2]	ABNREP	ABN Reported	ABN	A	NA	ABN number	
c[3]	T_BUS		text	T	NA	Text only	
c[4]	DESHOTEL	Describe business - license	tick	K	NA	Tick Box	
c[5]	DESMOTEL	Describe business - motels	tick	K	NA	Tick Box	
c[6]	DESSERVAPART	Describe business - service	tick	K	NA	Tick Box	
c[7]	DESHOLPARK	Describe business - holiday	tick	K	NA	Tick Box	
c[8]	DESVISITHOSTEL	Describe business - visitor h	tick	K	NA	Tick Box	
c[9]	DESPRBRK	Describe business - break	tick	K	NA	Tick Box	



General | Employment | Fin_Period | Income | Comments

Unit ID : AT00000001

Form type : 1SACL

Ref period : 30/06/2006

Unit name :

Part 1 - General information

Australian Business Number reported

Which of the following best describes this business?

Tick one box

- a) Licensed hotels
- b) Motels
- c) Serviced apartments
- d) Holiday parks/caravan parks/camping ground
- e) Visitor hostels
- f) Bed and breakfast establishments
- g) Resorts
- h) Other accommodation establishments

Please specify

Number of accommodation establishments and number of rooms operated by this business at 30 June 2007

Number of establishments

Number of rooms

- a) Licensed hotels
- b) Motels
- c) Serviced apartments

Conclusions

- **MAGIC is functional and in-use at ABS**
 - quicker than hand-coding
 - facilitates iteration (for presentation)
 - incorporates ABS standards

Conclusions *continued*

- Edits must be hand-coded
- Only generates Editing instruments
 - CATI/CAPI presentation different
 - Conditional routing a priority
- Reuse of metadata not possible when question changes form due to mode

Questions?

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