Edit Metadata Structures CE Surveys

Edit Metadata

- Data handlers
 - Economists, Statisticians, Researchers
 - -IT, Management, and Interviewers
- Edits
 - Methods
 - Examples
- Invisible to Handler
- Need for Metadata

CE CATEGORIES

HOUSING APPAREL **FOOD** TRANSPORTATI ON HEALTH **EDUCATION READI NG INSURANCE ENTERTAL NMENT ALCOHOL & BEVERAGES TOBACCO** MI SCELLANEOUS etc..

CE CATEGORIES

CATEGORY	SUB CATEGORY	DESCRI PTI ON
HOUSI NG	UTI LSPS	Total expenditures for utilities, fuels and public services
HOUSI NG	HOUSEFE SHELTER	Expenditures for house furnishings and equipment. Shelter, expenditures for owned dwellings, rented dwellings, and other lodging.
HOUSI NG	HOUSEOP	Expenditures for household operations including domestic and other household services.
APPAREL	MENABOY	Clothing for men and boys
APPAREL	WOMAGRL	Clothing for women and girls
FOOD FOOD	FOODAWY	Food at home Food away from home, sum of food away excluding meals as pay and meals as pay

EDIT Samples

RECODES

- Create New Fields
- From: Questionnaire, Recodes, Constants
- 2 Major Types

COMBI NED CODES • Codes representing 2 or more distinct item codes

I NVENTORY CONSI STENCY

- Edit on property, vehicles, insurance policies
- Checks for duplicates, validity
 - e.g., property really owned

EDIT Samples

BUSI NESS PERCENT

- Business percentage validity
- Rei mbursements

BRACKET EDIT

- Consistency of income brackets
- Median income for bracket assigned

VEHICLE EDIT

• Vehicle financing range and consistency

EDIT Samples

SUMMARY

- Aggregate UCC by consumer unit
 Uses mapping concordance file

 - Z-variables for expenditure
 - E-variables for outlay

INCOME **RANKI NG**

- Ranks family income
 - Highest to lowest
 - Before taxes, by quarter

SCREENS

- Identify outliers
- Applies largest gap & extreme value
- Both expenditures & income

CE FIELD TYPES

FI ELD TYPE	FI ELD		
ID		SUBTYPE	DESCRI PTI ON
1	EXPENSE		Consumer Expenditure Item Variables.
2	EXPENSE	BUSI NESS	Business Expense Item Variables.
3	I NCOME	MEMBER	Consumer Income Variables.
4	I NCOME	FAMI LY	Consumer Unit Income Variables.
5	TAX	FAMI LY	Consumer Unit Income Tax Variables.
6	TAX	MEMBER	Consumer Income Tax Variables.
7	SUMMARY	OUTLAY	Summary Outlays E Formula Variables.
8	SUMMARY	EXPENSE	Summary Expenditure Z Formula Variables.
9	RANK	I NCOME	Income ranking variable.
10	RANK	EXPENSE	Expenditure Ranking Variable.
11	RECODE	EXPENSE	Expense Recoded variables.
12	RECODE		Expense Recoded variables based on percentage values.
13	LOOKUP		Lookup type name having a list of valid codes.
14	DEMOGRAPHI C		Consumer Demographic Data Variables.
15	PARADATA		Data variables representing the process by which the survey data were collected.
16	WEI GHT		Weight Information

CE FIELD TYPES

FIELD			
	FI ELD TYPE	SUBTYPE	DESCRI PTI ON
			Consumer Unit data which describes, suggests
17	I NDI CATI VE		about a specific attribute of person or item.
18	I NDI CATI VE		Consumer data which describes, suggests about a specific attribute of person or item.
19	I NDI CATI VE		Data which describes psu, census unit control, sampling etc
20	SCREENER	BUSI NESS EXPENSE	Business Expenditure Screener Variable.
21	SCREENER		Personal Expenditure Screener Variable.
22	SCREENER		Any screener Variable.
23	SCREENER	GI FT	Gift item Screener Variable.
24	SCREENER	TAX	Tax Item Screener Variable.
25	SCREENER	I NCOME	Consumer Income Screener Variable.
26	SCREENER	REI MBURSEMENT	Reimbursement Screener Variable.
27	SCREENER	DEMOGRAPHI C	Consumer Demographic Screener Variable.
0.0	CCDEENED		Screener variables which describes, suggests
28	SCREENER	I NDI CATI VE	about a specific attribute of person or item.

Edit Process

LOGI CAL SEQUENCE

• Typi cal approach

RELATI ONAL ALI GNMENT

- Mathematical approach
- Uses alignments and relations as guide

SUMMARY Variables Config

DESC	UCC	VAR	VARTYPE	LEVEL1	LEVEL2	LEVEL3	LEVEL4
Fuel oil	250114	FUELOI L	SUMMARY	ALLFUEL	UTI LSPS	HOUSI NG	TOTAL
			To the			15, 11	
0ther							
fuels	250223	OTHRFLS	SUMMARY	ALLFUEL	UTI LSPS	HOUSI NG	TOTAL
El ectri ci t					1/10		
y	260113	ELECTRC	SUMMARY	ZELECTRC	UTI LSPS	HOUSI NG	TOTAL
Natural					0.3 T V		
gas	260214	NATLGAS	SUMMARY	NATLGAS	UTI LSPS	HOUSI NG	TOTAL
					1/1		
			HT HE				
Tel ephone	270103	TELEPHE	SUMMARY	TELEPHE	UTI LSPS	HOUSI NG	TOTAL

SUMMARY High (process view)

XXID	SUM_LEVEL	VARTYPE	VARNAME	SUM_VALUE
XX1102058	LEVEL4	ZSUMMARY	TOTAL	11025.20
XX1102058	LEVEL3	ZSUMMARY	HOUSING	6352.00
XX1102058	LEVEL2	ZSUMMARY	ENTRMNT	180.00
XX1102058	LEVEL2	ZSUMMARY	SHELTER	5853.00
XX1102058	LEVEL2	ZSUMMARY	TRANPRT	2864.00
XX1102058	LEVEL2	ZSUMMARY	UTILSPS	364.00
XX1102058	LEVEL1	ZSUMMARY	TELEPHE	90.00
XX1102058	LEVEL1	ZSUMMARY	TVRADIO	180.00
XX1102058	LEVEL1	ZSUMMARY	RENTDWL	5853.00

SUMMARY Low (process view)

XXI D VAR	VAR VALUE	E LEVEL1	LEVEL1 VALUE	LEVEL2	LEVEL2 VALUE	LEVEL3	LEVEL 3 VALUE	LEVLE	LEVEL 4 VALUE
XX1102058 NATLGAS	145	NATLGAS	145	UTI LSPS	145	HOUSI NO	145	TOTAL	145
XX1102058 TELEPHE	90	TELEPHE	90	UTI LSPS	90	HOUSI NG	90	TOTAL	90
XX1102058 ELECTRC	129	ELECTRO	129	UTI LSPS	129	HOUSI NO	129	TOTAL	129
XX1102058 ELECTRC	0	ELECTRO	0	UTI LSPS	0	HOUSI NO	0	TOTAL	0

Recodes example

```
Quarterly RENT= Sum(MONTHLY Rent (i))
where i = 1, 2, 3
Personal Rent % = 1 - Business Rent%

Total 6 variables involved
```

RECODES Config

RECODE	DESCRI PTI ON	RECODE LEVEL QRT3MCMX	OPR1 EOPR1 TYPE		OPER	OPR TYPE OPR2		OPR2 TYPE	
		QADRTX1							
		+							
	Total rent paid	1QADRTX2							
	in reference	+		0.4.7.7.7.4				QADRTX	
QRT3MCMX	-	QADRTX3 LEVEL3	RENT	QADRTX1	RECODE	ION	ION	2	RECODE
	Rental cost	QADRTX3							
	last month	= ODENHALE		OPENELL					
O A D DOWN	(adjusted for	QRENTALZ	DENIE	QRENTAL		4	DAGE	DEMINO	DAIII
QADRTX3	busi ness)	* RENTX3 LEVEL2	KENT	Z	RECODE	•	BASIC	CRENTX3	KAW
	Rental cost in	OADDTVO							
	the month (2	QADRTX2							
	months ago,	= QRENTALZ		QRENTAL					
QADRTX2	adjusted for business)	* RENTX2 LEVEL2	DENT	Z	RECODE	*	BAST	RENTX2	DAW
QADRIAZ	Rental cost in	RENIALLEVELL	KENI	L	RECODE		DASI	RENIAL	ICAYV
	the month (3	QADRTX1							
	months ago,	- AVIVIXI							
	adjusted for	QRENTALZ		QRENTAL					
QADRTX1	busi ness)	* RENTX1 LEVEL2	ERNT	Z	RECODE	*	BAST	RENTX1	RAW
Q:IDIVI7II	Percentage of				MLCODL		DIE	71011111111	10/11/
	rental cost								
	after deducting	ORENTALZ							
	busi ness	= 1 -			CONSTAN	I		RTBSNS	
QRENTALZ	expense	RTBSNSZ LEVEL1	ERNT		1 T	_	BASI	CZ	RAW

RECODES Data (process view)

RECODE	LEVEL		RECODE VALUE	OPR1 OPR1 TYPE	OPR1 VALUE	OPR2	OPR2 TYPE		OPR_TYPE
QRENTALZ	LEVEL 1	ERNT	1	CONS 1 TANT		RTBSNS 1Z	RAW	В-	BASI C
QADRTX1	LEVEL 2	ERNT		QREN RECO TALZ DE		1 RENTX1	RAW	675*	BASI C
QADRTX2	LEVEL 2	ERNT		QREN RECO TALZ DE		1 RENTX2	RAW	675*	BASIC
QADRTX3	LEVEL 2	ERNT		QREN RECO TALZ DE		1 RENTX3	RAW	675*	BASIC
QRT3MCMX	LEVEL 3	ERNT	2025	QADR RECO TX1 DE	67	QADRTX '52	RECO DE	Get_QR 675T3MCMX	FUNCTI ON

Metadata Pros

- Qui ck vi sual analyses
- Gauge effectiveness of edit process
- Metadata out of sight is out of mind

Q & A