

Block 3: Analysing two variables (and sometimes three)

Multiple response

3.3.3 Note on multiple response in 1986 British Social Attitudes survey

Previous tutorials: 3.3.1 Analysing multiple response with SPSS - an introduction  
 3.3.2a [SPSS 15] First exercise in multiple response

Exemplar: British Social Attitudes survey (1986 wave)

There are several questions in the 1986 survey which allow for multiple response and can legitimately have more than one answer. Some of these are open-ended questions for which up to three, up to five or even more (recorded verbatim) answers have been post-coded: others are pre-coded (with or without the use of showcards).

The latter fall into two groups: those in which all the possible responses have been allocated a different (numeric) value in the coding scheme, and those which have not. Also in the latter, each possible numeric code has been allocated a separate field in the data set (ie record and column(s)), whereas the former have simply been allocated a maximum number of fields into which any numeric code can be entered. Examples are:

1: More codes than fields:

Q70f Groups prejudiced against (open ended)

e)	How would you describe yourself: ... <u>READ OUT</u> ... ... as very prejudiced against people of other races, a little prejudiced, or - not prejudiced at all? Other answer (SPECIFY) _____	(575) 1 } 2 } 3 } 7 }	f) Q.71
	<u>IF 'VERY' OR 'A LITTLE' PREJUDICED</u>	(575-80)	SPARE
	f) Against any race in particular? <u>PROBE FOR RACES AND RECORD.</u> <u>IF 'BLACK' OR 'COLOURED' MENTIONED, PROBE FOR WHETHER WEST</u> <u>INDIAN, ASIAN, GENERAL, ETC. RECORD VERBATIM EVERYTHING</u> <u>MENTIONED</u>	(608-09)  (610-11)  (612-13)	

[Up to three replies post-coded  
 13 possible codes (01 - 10, 97 -99)  
 3 fields, cols 08-09, 10-11, 12-13 of record 6]

a) How would you describe yourself: ... <u>READ OUT</u> ... ... as very prejudiced against people of other races, ONE CODE ONLY a little prejudiced, 8 = D/K or - not prejudiced at all? 9 = N/A Other answer (SPECIFY) <u>RECODE IF POSSIBLE OTHERWISE FINAL LIST WITH S/NO</u> (If 575/1 or 2) IF 'VERY' OR 'A LITTLE' PREJUDICED	(575)	
	1 } f)	
	2 }	
	3 } Q.71	
	7 }	
	(575-80)	SPARE
	CARD 06	(506-07)
f) Against any race in particular? <u>PROBE FOR RACES AND RECORD.</u> <u>IF 'BLACK' OR 'COLOURED' MENTIONED, PROBE FOR WHETHER WEST</u> <u>INDIAN, ASIAN, GENERAL, ETC. RECORD VERBATIM EVERYTHING</u> <u>MENTIONED</u> UP TO 3 ANSWERS MAY BE CODED.	(608-09)	
01 - ASIANS	(610-11)	
02 - BLACKS		
03 - COLOURED	(612-13)	
04 - PAKISTANIS		
05 - INDIANS		
06 - SIKHS		
07 - WEST INDIANS		
08 - AFRICANS		
09 - OTHER SPECIFIED RACES/NATIONALITIES/COUNTRIES		
10 - AGAINST ALL RACES (OTHER THAN WHITE) NO RACE IN PARTICULAR (INCLUDES NO)		
97 - OTHER ANSWER NOT FALLING INTO 01-10 (FINAL LIST WITH S/NO) *		
98 - DONT' KNOW		
99 - N/A		
* FINAL LISTINGS OF ALL ANSWERS WHERE REASONS ONLY WERE RECORDED		
** ALSO LIST VERBATIM ANSWERS WHERE MORE THAN JUST RACE WAS MENTIONED (WITH CODES USED)		

[Extract from raw data: record 06]

1019206	3323122111	1112211801501	007800	1111222	511	
102030603	8813112311	1332111100601	003120	3222222	21212	5
1020506010205	11131111111	2111113102001	010400	1111122	411 2	5

2: One field allocated per code:

**Q53 Priorities for Government spending** (precoded with showcard)

<u>CARD H</u>			
53.	Here are some items of government spending. Which of them, if any, would be your highest priority for <u>extra</u> spending? And which next? Please read through the whole list before deciding.	1st	2nd
		<u>Priority</u>	<u>Priority</u>
		(531-32)	(533-34)
	<u>ONE CODE ONLY IN EACH COL.</u>		
	Education	01	01
	Defence	02	02
	Health	03	03
	Housing	04	04
	Public transport	05	05
	Roads	06	06
	Police and prisons	07	07
	Social security benefits	08	08
	Help for industry	09	09
	Overseas aid	10	10
	(NONE OF THESE)	11	11
	(Don't know)	98	98

[Two replies only,  
13 possible codes (01 to 11)  
two fields, cols 31-2 and 33-4 of record 5]

**[Extract from raw data: record 05]**

1019205203	2	443	070313221222222222	11311213	1132207071111113
1020305203	2	443	090414112322222332	31811123	2332204011111111
1020505			030113121255111112	21221221	2113501 111111

**AQ109a/BQ117b Educational qualifications obtained (precoded with showcard)**

<u>ASK ALL</u> <u>CARD CC</u>		(1565)	
117.a)	Have you passed any exams or got any of the qualifications on this card?	Yes No, none	1 2
	<u>IF YES (CODE 1 AT a)</u>		b) Q.118
	b) Which ones? Any others?	CSE Grades 2-5	01 (1566-7)
	<u>CODE ALL THAT APPLY</u>	CSE Grade 1 GCE 'O' level School certificate Scottish (SCE) Ordinary	02 (1568-9)
		GCE 'A' level/'S' level Higher certificate Matriculation Scottish (SCE) Higher	03 (1570-1)
		Overseas School Leaving Exam/Certificate	04 (1572-3)
		Recognised trade apprenticeship completed	05 (1574-5)
		RSA/other clerical, commercial qualification	06 (1576-7)
		City & Guilds Certificate - Craft/Intermediate/Ordinary/Part I	07 (1578-9)
		City & Guilds Certificate - Advanced/Final/Part II or Part III	08 (1608-9)
		City & Guilds Certificate - Full technological	09 (1610-1)
		BEC/TEC General/Ordinary National Certificate (ONC) or Diploma (OND)	10 (1612-3)
		BEC/TEC Higher/Higher National Certificate (HNC) or Diploma (HND)	11 (1614-5)
		Teachers training qualification	12 (1616-7)
		Nursing qualification	13 (1618-9)
		Other technical or business qualification/certificate	14 (1620-1)
		University or CNAA degree or diploma	15 (1622-3)
	Other (SPECIFY)		97 (1624-5)

[18 possible codes (01-15) each in fixed location,  
one field per code (cols 66-67, 68-69 ... 78-79 of record 15  
and 08-09,10-11, 22-23 of record 16)  
plus missing code 97,98 or 99 in cols 24-25 of record 16.  
Total of 16 fields, 32 cols]

**[Extract from raw data: records 15 and 16]**

```

10192150312601163111362                222012
1019216                      1      999021117998999  99999  933                07

10203150142801                        2  032
1020316                      999021117998999  99999  933

100801505123191371 1022 1032 2102                2220210102
1008016                      1  1  045040805318302  000510113222222                05
    
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BQ86a Action would take }  
 } to stop or change an unjust law (precoded with showcard)  
 BQ86b Action ever taken }

CARD P		Col./ Code	Skip to
86.a)	Suppose a law was being considered by Parliament which you thought was really unjust and harmful. Which, if any, of the things on this card do you think you would do? Any others? <u>RECORD IN COL a) BELOW, THEN ASK b).</u> <u>MORE THAN ONE CODE MAY BE RINGED</u>		
b)	And have you ever done any of the things on this card about a government action which you thought was unjust or harmful? Which ones? Any others? <u>RECORD IN COL b) BELOW.</u> <u>MORE THAN ONE CODE MAY BE RINGED</u>		CARD 07 (706-7)
		(a) Would do	(b) Ever done
	Contact my MP	1 (671)	1 (708)
	Speak to influential person	2 (672)	2 (709)
	Contact a government department	3 (673)	3 (710)
	Contact radio, TV or newspaper	4 (674)	4 (711)
	Sign a petition	5 (675)	5 (712)
	Raise the issue in an organisation I already belong to	6 (676)	6 (713)
	Go on a protest or demonstration	7 (677)	7 (714)
	Form a group of like-minded people	1 (678)	1 (715)
	(NO - NONE OF THESE)	2 (679)	2 (716)

[9 possible substantive replies, but only 7 codes!  
 columns 71 to 79 of record 6 and columns 08 to 16 of record 7  
 codes 1 and 2 are repeated at cols 6/78-79 and 7/15-16 and **need changing**  
 (be careful with codes 8 and 9 defined as missing!)]

- a) 8 = DK, 9 = NA on 679
- b) 8 = DK, 9 = NA on 716

[Extract from raw data: records 06 and 07]

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1019206      3323122111 1112211801501      007800 1111222      511 21
10192071      34444444123555 2132132212223      52655616541233333330104010211

102030603    8813112311 1332111100601      003120 3222222      21212 5
1020307      222222888121776 2112112122451      23636666343111131180107030411

10205060102051113111111 2111113102001      010400 1111122      411 2 5
1020507 5      11111833124225 2211121222222      23668656531112221230801030722
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AQ117 (BQ125) Welfare benefits received (showcard)

	<u>ASK ALL</u>		
	<u>CARD GG</u>		
125.	Have you or anyone in this household been in receipt of any of the benefits on this card during the last five years?		
	<u>IF YES: Which ones? Any others?</u>		
	<u>CODE ALL THAT APPLY</u>		
	Child benefit (family allowance)	1	(1739)
	Maternity benefit or allowance	2	(1740)
	One parent benefit	3	(1741)
	Family Income Supplement	4	(1742)
	State retirement or widow's pension	5	(1743)
	Supplementary pension	6	(1744)
	Invalidity or disabled pension or benefit	1	(1745)
	Attendance/Invalid care/Mobility allowance	2	(1746)
	Sickness or injury benefit	3	(1747)
	Unemployment benefit	4	(1748)
	Supplementary benefit	5	(1749)
	Rate or rent rebate or allowance	6	(1750)
	Other benefit(s) volunteered (SPECIFY) _____	7	(1751)
	_____		
	_____		
	NO, NONE	0	(1752)

13 possible replies, but only 6 substantive codes allocated!  
 12 columns (39-50) of record 17 Code 7 for "other" in col 51  
 codes 1-6 repeated from col 45 to 50 and **need changing**

117	<p>ASK ALL ✓</p> <p>CARD GG</p> <p>Have you or anyone in this household been in receipt of any of the benefits on this card during the last five years?</p> <p>IF YES: Which ones? Any others? Child benefit (family allowance)</p> <p>CODE ALL THAT APPLY</p> <p>8 = D/K ON COL 1752 9 = N/A ON COL 1752</p> <p>N.B. IF BENEFIT IS PRIVATE e.g. PRIVATE PENSION, ALIMONY, OR LOCAL EDUCATION AUTHORITY BENEFIT e.g. MILK TOKENS DELETE CODES - IF NECESSARY RECODE TO 1752/0</p> <p>Housing benefit/Rate or rent rebate or allowance</p> <p>Other benefit(s) volunteered (SPECIFY) RECODE IF POSSIBLE OTHERWISE</p> <p>FINAL LIST WITH S.No.</p> <p>* NEW CODE 1752/1 = GRADUATED, SUPERANNUATION WHERE NOT NO, NONE CLEAR IF PRIVATE OR STATE</p>	<p>1 (1739)</p> <p>2 (1740)</p> <p>3 (1741)</p> <p>4 (1742)</p> <p>5 (1743)</p> <p>6 (1744)</p> <p>1 (1745)</p> <p>2 (1746)</p> <p>3 (1747)</p> <p>4 (1748)</p> <p>5 (1749)</p> <p>6 (1750)</p> <p>7 (1751)</p> <p>0 (1752)</p>
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[Extract from raw data: record 17]

1019217003010501213601	00051025198981	3	98 2111310551870030586131
1020317	03031	5	03 1111290601870300486231
1020517136010808323408	01981015102021	4	03 1111310501870300486111



### 3: Binary variables (dichotomous)

Sets of questions with only two response categories (Yes, No) can be analysed as a block by treating them as multiple response questions. Indeed, any variable can be dichotomised and thus treated. An example in this data set is:

#### AQ112c/BQ120c Actions as Trade Union member (Yes, No – precoded)

		Col./ Code	Skip to
120.a)	<u>ASK ALL</u> Are you <u>now</u> a member of a trade union or staff association?	(1657) 1 } 2 }	c)
	Yes: trade union		
	Yes: staff association		
	No	3	b)
	<u>IF NO AT a)</u>	(1658)	
b)	Have you <u>ever</u> been a member of a trade union or staff association?	1 } 2 }	c)
	Yes: trade union		
	Yes: staff association		
	No	3	Q.121
	<u>IF NOW OR EVER A MEMBER (CODES 1 OR 2 AT a OR b)</u>		
c)	Have you ever ... <u>READ OUT</u> ... (RING ONE CODE FOR EACH)	<u>YES</u>	<u>NO</u>
	... attended a union or staff association meeting?	1	2 (1659)
	... voted in a union or staff association election or meeting?	1	2 (1660)
	... put forward a proposal or motion at a union or staff association meeting?	1	2 (1661)
	... gone on strike?	1	2 (1662)
	... stood in a picket line?	1	2 (1663)
	... served as a lay representative such as a shop steward or branch committee member?	1	2 (1664)

cols 59-64 of record 16 (codes 1, 2)

		Col./ Code	Skip to
112 a)	<u>ASK ALL</u> ✓ Are you <u>now</u> a member of a trade union or staff association?	(1657) 1 } 2 }	c)
	Yes: trade union		
	Yes: staff association		
	No	3	b)
	<u>IF NO AT a) (If 1657 3)</u>	(1658)	
b)	Have you <u>ever</u> been a member of a trade union or staff association?	1 } 2 }	c)
	Yes: trade union		
	Yes: staff association		
	No	3	Q.113
	<u>IF NOW OR EVER A MEMBER (CODES 1 OR 2 AT a OR b) If 1657 1=2 or 1658 1=2</u>		
c)	Have you ever ... <u>READ OUT</u> ... (RING ONE CODE FOR EACH)	<u>YES</u>	<u>NO</u>
	... attended a union or staff association meeting?	1	2 (1659)
	... voted in a union or staff association election or meeting?	1	2 (1660)
	... put forward a proposal or motion at a union or staff association meeting?	1	2 (1661)
	... gone on strike?	1	2 (1662)
	... stood in a picket line?	1	2 (1663)
	... served as a lay representative such as a shop steward or branch committee member?	1	2 (1664)

[Extract from raw data: record 16]

1019216	1	999021117998999	99999	933	07
1020316		999021117998999	99999	933	
1020516	9721	063010807327408	001010131	112112	103

Next: 3.3.4 Analysing multiple response in the 1986 British Social Attitudes survey