

The Data File

Before you can analyze data, you need to create a file which holds them. To illustrate the way in which these files are produced, we will use an imaginary set of data from a questionnaire study which is referred to as the **Job Survey**.

The data relating to this study derive from two sources: a questionnaire study of employees who answer questions about themselves and a questionnaire study of their supervisors who answer questions relating to each of the employees. The questions asked are shown in Appendix 2.1, while the coding of the information or data collected is presented in Table 2.1. The cases consist of people, traditionally called *respondents* by sociologists and *subjects* by psychologists whose preferred term now is *participants*.

Although questionnaire data have been used as an example, it should be recognized that SPSS and the data analysis procedures may be used with other forms of quantitative data, such as official statistics or observational measures.

TABLE 2.1 The Job Survey data

01	1	1	16600	29	1	4	0	3	4	4	2	4	2	2	2	2	3	2	2	3	0	1	7
02	2	1	14600	26	5	2	0	0	2	3	2	2	1	2	3	4	4	4	1	3	4	4	8
03	3	1	17800	40	5	4	4	4	4	1	2	1	2	2	2	1	2	3	1	4	3	4	0
04	3	1	16400	46	15	2	2	5	2	4	1	2	2	2	3	2	2	3	2	3	3	4	4
05	2	2	18600	63	36	4	3	4	4	1	2	3	3	3	4	5	5	4	1	3	5	3	0
06	1	1	16000	54	31	2	2	5	3	3	2	1	1	2	4	4	4	4	1	1	3	4	1
07	1	1	16600	29	2	0	3	3	2	3	2	2	3	2	3	5	4	2	2	3	5	2	0
08	3	1	17600	35	2	5	2	2	4	2	3	4	3	2	3	3	3	2	2	3	4	4	2
09	2	2	17600	33	4	3	3	1	2	4	2	3	4	1	2	2	3	2	2	2	1	1	5
10	2	2	13800	27	6	4	3	2	3	3	2	1	3	2	3	4	3	5	1	2	2	4	4
11	1	1	14200	29	4	2	2	4	1	4	2	1	1	2	5	4	3	4	2	2	2	3	8
12	2	1	0	19	2	1	1	5	2	4	1	1	1	1	3	4	3	3	1	3	2	3	4
13	4	1	18000	55	35	3	3	3	4	2	2	2	3	2	5	5	5	4	1	4	3	5	1
14	1	2	17000	29	1	2	3	4	2	4	2	2	3	1	4	3	4	4	1	1	2	2	0
15	3	1	18200	48	8	3	3	2	2	1	3	2	4	4	2	3	3	3	2	4	5	5	1
16	2	1	15800	32	7	3	3	4	2	2	2	3	1	2	4	2	2	2	2	2	2	3	4
17	1	1	16600	48	14	3	3	3	2	4	1	2	2	2	4	5	4	4	1	2	5	3	1
18	1	2	13400	18	1	2	2	4	2	4	2	3	2	2	5	5	5	1	1	2	3	3	6
19	3	2	15000	28	2	4	4	2	3	2	3	4	3	3	3	2	3	2	2	3	4	4	3
20	3	2	17600	37	1	3	2	3	3	3	3	2	1	2	5	4	4	5	1	1	4	1	3
21	1	1	0	43	16	1	4	4	3	3	3	2	3	3	3	2	4	4	2	4	5	2	6
22	1	1	17400	39	6	3	2	3	2	3	3	2	2	3	4	3	5	3	2	1	1	5	5
23	1	1	18000	53	5	1	4	3	4	4	4	3	2	2	3	5	4	2	1	3	3	5	13
24	2	2	16000	34	9	1	3	4	1	5	1	2	1	1	3	4	4	3	2	1	3	3	9
25	3	2	17000	43	17	4	3	4	5	3	3	1	3	2	3	2	4	4	1	3	5	2	2
26	1	1	14000	21	1	4	4	2	2	3	4	3	3	4	2	3	2	2	1	2	5	5	3
27	1	1	16200	50	28	3	2	3	3	4	2	1	1	2	5	5	5	4	1	2	2	4	8
28	1	2	12400	31	9	1	2	5	1	4	2	2	1	2	4	4	5	4	2	3	5	5	0
29	1	1	13600	31	12	3	3	4	3	3	3	2	2	3	2	3	1	2	1	3	5	4	6
30	2	2	16400	52	21	2	3	2	3	2	3	3	3	3	2	2	2	2	2	4	4	3	10
31	1	1	14400	54	12	3	5	3	3	3	3	2	3	2	4	3	4	4	2	4	4	2	99
32	3	2	12400	28	10	2	2	4	1	5	1	2	2	2	3	3	3	2	1	2	4	4	9
33	2	2	16600	50	23	4	4	3	4	3	4	2	3	4	3	3	3	3	2	3	4	5	5
34	2	2	16000	52	21	5	4	3	3	3	3	4	3	3	2	3	3	2	1	3	2	5	4

35	1	2	15000	40	21	1	1	3	4	3	3	2	3	2	2	3	2	2	1	2	2	3	6
36	2	1	11800	19	1	2	2	5	2	4	2	1	2	2	5	5	5	5	2	2	3	2	3
37	2	1	17600	38	4	5	4	1	4	3	5	3	3	3	2	1	2	1	2	4	4	4	8
38	2	1	18000	61	41	5	3	2	4	1	3	2	2	2	2	2	1	2	2	3	5	4	3
39	1	2	15600	37	8	3	2	4	2	3	2	3	3	2	4	5	4	5	1	3	4	4	8
40	2	1	13400	31	5	2	2	5	2	5	2	2	2	1	5	5	5	4	2	1	1	2	5
41	2	2	15000	43	21	4	3	2	2	2	3	4	2	3	3	3	3	3	1	1	4	2	0
42	3	1	13600	23	3	1	2	5	3	5	1	1	2	1	4	4	4	5	1	3	2	2	8
43	2	2	14000	27	5	1	1	4	1	4	1	1	1	2	4	5	4	4	2	1	2	1	9
44	1	1	15000	28	7	3	3	1	3	3	3	5	3	3	1	2	2	1	1	2	4	3	9
45	1	1	13200	0	10	1	1	4	1	4	2	2	2	2	4	2	5	5	1	4	1	3	10
46	3	1	13400	18	1	4	2	3	4	2	2	3	3	2	4	3	5	4	1	4	3	4	3
47	1	2	20600	48	23	3	4	3	3	3	2	2	3	2	2	1	3	2	2	4	4	3	8
48	1	2	13600	29	10	2	3	5	4	4	2	2	2	1	3	4	2	2	1	3	4	4	11
49	1	2	14600	42	10	2	2	3	3	3	2	2	1	2	5	5	5	5	2	1	4	4	0
50	1	1	18200	53	12	4	5	2	5	1	4	5	3	4	2	2	2	2	2	4	4	4	1
51	1	1	15200	32	12	3	2	4	1	4	3	2	2	3	3	3	4	2	1	2	3	2	1
52	1	2	13000	31	2	1	3	5	1	5	2	2	3	2	5	4	4	5	2	1	3	1	8
53	1	1	19000	55	19	5	4	3	5	3	5	4	3	3	3	4	3	3	1	3	4	3	0
54	3	2	14800	26	8	4	4	1	3	3	4	5	2	3	1	2	1	2	2	4	3	3	2
55	1	2	17200	53	22	3	4	2	3	1	3	4	4	3	2	1	2	2	1	3	5	5	0
56	1	1	15600	51	31	2	3	3	3	3	3	2	4	4	5	4	5	5	1	4	1	1	8
57	1	1	15400	48	23	3	1	4	3	4	2	2	2	2	5	5	4	5	1	1	3	2	6
58	1	2	13800	48	28	1	1	4	1	5	2	2	2	1	5	5	5	5	2	1	4	3	4
59	2	2	15800	62	40	1	2	3	2	5	2	2	3	2	5	4	4	5	2	1	1	5	7
60	2	1	17400	57	13	2	3	4	2	3	2	3	1	2	3	3	4	3	1	4	4	1	4
61	1	2	17800	42	20	5	4	2	2	2	3	3	3	3	2	1	2	4	2	3	3	3	2
62	1	1	14200	21	2	1	2	3	1	4	2	3	2	1	3	3	3	3	1	4	2	2	0
63	3	2	12800	26	8	3	1	3	2	4	1	2	1	1	2	3	3	2	1	4	1	1	4
64	1	2	13600	46	0	1	2	5	2	4	3	1	2	2	5	5	5	5	2	2	3	4	5
65	1	2	21000	59	21	4	3	2	4	2	2	2	3	3	2	3	2	2	2	4	5	1	4
66	4	2	14200	30	8	0	3	3	2	4	2	3	2	2	5	4	4	4	1	2	2	3	2
67	1	1	14600	29	8	3	2	2	3	3	2	3	2	1	5	3	4	3	2	1	4	5	10
68	3	1	13800	45	9	2	3	4	3	4	3	3	3	3	3	3	4	3	3	2	2	3	4
69	3	1	16000	53	30	3	2	5	3	2	2	1	2	2	4	5	3	4	2	2	1	4	2
70	1	1	13800	47	22	2	3	4	2	5	2	3	4	2	4	3	5	4	1	2	4	4	11

At the top of each column is the SPSS name or label we have given to the variables in this survey.

SPSS names

Variable and file names in SPSS have to meet certain specifications. Unlike earlier versions of SPSS, they can now be longer than eight characters and can begin with a capital letter. However,

it is most probably preferable to keep the names short. Names must begin with an alphabetic character (A–Z). The remaining characters can be any letter, number, period, @ (at), \$ (dollar) or _ (underscore). Blank spaces are not allowed and they cannot end with a period and, preferably, not with an underscore. In addition, certain words, known as *keywords*, cannot be used because they can only be interpreted as commands by SPSS. They include words such as **add**, **and**, **any**, **or**, and **to**. The SPSS names given to the variables in the Job Survey are presented in Table 2.2.

TABLE 2.2 The SPSS names of the Job Survey variables

Variable name	SPSS name
Identification number	id
Ethnic group	ethnicgp
Gender	gender
Gross annual income	income
Age	age
Years worked	years
Organizational commitment	commit
Job-satisfaction scale	
Item 1	satis1
Item 2	satis2
Item 3	satis3
Item 4	satis4
Job-autonomy scale	
Item 1	autonom1
Item 2	autonom2
Item 3	autonom3
Item 4	autonom4
Job-routine scale	
Item 1	routine1
Item 2	routine2
Item 3	routine3
Item 4	routine4



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