Chapter XI
ACA Analysis with the 15.0.0 Version of SPSS for Windows

ABSTRACT

This chapter briefly introduces the use of SPSS version 15.0 to conduct ACA analysis. The SPSS accepts datafiles in many different formats including spreadsheets, database files, tab-delimited, and other types of ASCII text files. Assuming that cocitation frequency counts are stored in a spreadsheet file in Excel, we demonstrate each step of ACA analysis to produce outputs using factor, cluster, and multi-dimensional scaling analyses.

INTRODUCTION

The previous three chapters (VIII, IX, and X) discussed how to use the SAS system to conduct ACA using the factor, cluster, and multi-dimensional scaling procedures. This chapter briefly introduces the use of SPSS version 15.0 to conduct ACA analysis. The SPSS accepts data files in many different formats including spreadsheets, database files, and tab-delimited and other types of ASCII text files. Assuming that cocitation frequency counts are stored in a spreadsheet file in Excel form, this chapter starts with how to import the data file in Excel format.
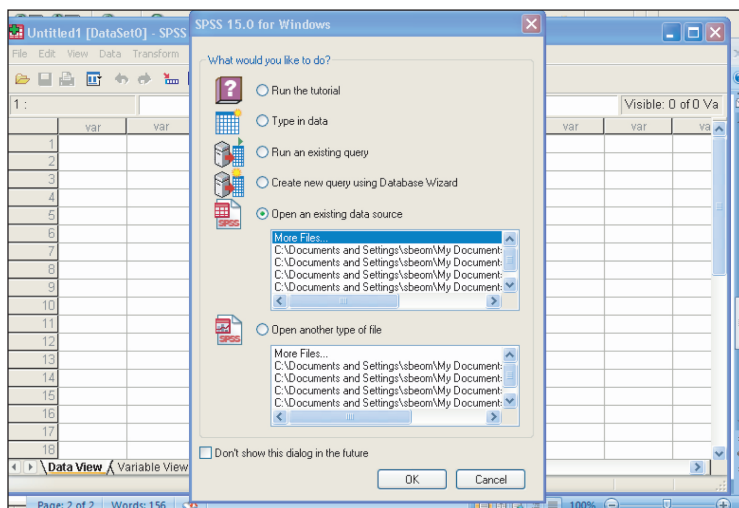
OPENING A DATA FILE

The very first step is to go to window Start menu → all programs → SPSS for Windows → SPSS 15.0 for Windows. The first Window pop-up dialog box in Figure 1, select an existing data source.

The open data dialog box in Figure 2 by default shows all SPSS data format (.sav) files. To read an Excel file you created, first, click "v" in the first "look in" dropdown menu box to change to the directory in which the Excel data file is stored.

Table 1. Sample cocitation frequency counts

alter	bonczek	carlson	huber	keen	smorton	Simon	sprague	Whinston
121	25	66	23	92	83	38	67	27
25	103	53	23	46	42	33	59	93
66	53	173	34	112	101	54	133	54
23	23	34	68	47	39	37	49	24
92	46	112	47	206	174	82	126	50
83	42	101	39	174	190	82	105	45
38	33	54	37	82	82	111	58	37
67	59	133	49	126	105	58	182	61
27	93	54	24	50	45	37	61	104

Figure 1. Windows "What would you like to do?" dialog box

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