Can SPSS conduct all possible regressions?

According to SPSS technical support, it cannot. However, it says that it can be done using Macros. Carol found a program in the internet and it works. (http://pages.infinit.net/rlevesqu/Syntax/RegressionRepeatedMeasure/DoAll-SubsetsRegressions.txt) The syntax, all_possible_mydata.sps, is available in Programs in EPRS8550 homepage. What it does is to run all possible regressions. But it does not give a nice summary table like the one you see in my handout. So you still have to scroll many pages of output and pick the numbers you need to make a summary table.

The program is complex, but all we have to do is to paste it into syntax and run. You do not even need data. The program will call in data from your specified drive. You need to modify the program to suite your data. Here is the example:

At the bottom of the original program, I saw:

************************.
* EXAMPLE OF USE.
************************.
* You have to make any changes you require in the above regression macro *.

SET MPRINT=yes.
****** Run the following macro to do the preparatory work.
!combine n=5 m=5 dep=salary indepv=educ jobcat jobtime prevexp minority.

****** Load your data file and do the regressions.
GET FILE='c:\Program Files\SPSS\Employee data.sav'.
INCLUDE FILE='c:\temp\syntax to do all regressions.sps'.

To run our data set, I changed it to:

************************.
* EXAMPLE OF USE.
************************.
* You have to make any changes you require in the above regression macro *.

SET MPRINT=yes.
****** Run the following macro to do the preparatory work.
!combine n=4 m=4 dep=y indepv=x1 x2 x3 x4.

****** Load your data file and do the regressions.
GET FILE='f:\855web\model.sav'.
INCLUDE FILE='c:\temp\syntax to do all regressions.sps'.

Make sure you change the path to your data. I had my data in the F drive in the folder named "855 web". You may have a different drive and folder.
Good Luck. (11/10/05, SPSS v12)