

How can I output the results of my regression to an SPSS data file?

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To output the results of a regression to an SPSS data file, follow these steps:

1. Open your regression analysis in SPSS.
2. Click on the "Results" tab at the top of the screen.
3. Select "Save As" from the drop-down menu.
4. Choose "Data File" as the file type.
5. Name your file and select the location where you want to save it.
6. Click "Save" to export the results of your regression to the SPSS data file.
7. You can now access and manipulate the results in the saved data file for further analysis or reporting purposes.

How can I output the results of my regression to an SPSS data file? | SPSS FAQ

Sometimes it is useful to output the results of a regression

analysis to a data file for further analyses. To do this in SPSS,

you can use the output subcommand of the regression command.

You have two choices of what to save using this subcommand: you can save

the covariance matrix of the coefficients (with the covb option) or you

can save the correlation matrix of the coefficients (with the covr

option). Let us use a data set called hsb2 as an

example. We will save the results and the covariance

**matrix of the
coefficients in a file called out1.sav.**

**get file
'd:https://stats.idre.ucla.edu/wp-content/uploads/2016/02/hsb2-2.sav'.
regression
/dep = write
/method = enter read female
/outfile = covb('d:out1.sav').**

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	20.228	2.714		7.454	.000
	READ	.586	.049	.612	11.459	.000
	FEMALE	5.487	1.014	.289	5.410	.000

a. Dependent Variable: WRITE

**get file 'd:out1.sav'.
list.**

**DEPVAR_ ROWTYPE_ VARNAME_ CONST_ READ
FEMALE**

WRITE COV CONST_ 7.36 -.13 -.70

```
WRITE COV READ -.13 .00 .00
WRITE COV FEMALE -.70 .00 1.03
WRITE EST 20.23 .57 5.49
WRITE SE 2.71 .05 1.01
WRITE SIG .00 .00 .00
WRITE DFE 197.00 197.00 197.00
```

Number of cases read: 7 Number of cases listed: 7

As you can see above, the covariances between the estimates have been saved to this file, as well as the estimates, their standard errors, the significance and the error degrees of freedom. Note that the precision of the values saved in out1.sav is greater than the two decimal places shown here. Two decimal places are shown because that is the default number of decimal places to display in an SPSS data set. You can easily increase the number of decimal places shown by going to the "Variable View" of the SPSS Data Editor and increasing the value in the column labeled "Decimals" (you may have

to increase the column width first).

Now let's run the same regression and this time use the corb option instead.

```
get file
'd:https://stats.idre.ucla.edu/wp-content/uploads/2016/02/hsb2-2.sav'.
regression
/dep = write
/method = enter read female
/outfile = corb('d:out2.sav').
```

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	20.228	2.714		7.454	.000
	READ	.566	.049	.612	11.459	.000
	FEMALE	5.487	1.014	.289	5.410	.000

a. Dependent Variable: WRITE

```
get file 'd:out2.sav'.
list.
```

**DEPVAR_ ROWTYPE_ VARNAME_ CONST_ READ
FEMALE**

WRITE COR CONST_ 1.00 -.96 -.25

WRITE COR READ -.96 1.00 .05

WRITE COR FEMALE -.25 .05 1.00

WRITE EST 20.23 .57 5.49

WRITE SE 2.71 .05 1.01

WRITE SIG .00 .00 .00

WRITE DFE 197.00 197.00 197.00

Number of cases read: 7 Number of cases listed: 7

As we can see, the correlations between the coefficients have been saved to the data set, as well as the estimates, their standard errors, the significance and the error degrees of freedom.

Results can also be saved into data sets using the Output Management System (OMS). For more information on how to use OMS to output results to data sets, please see How can I output my results to a data file in

SPSS? .

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