

Figure 16: SPSS Syntax for Computing Linear regression with Plausible Values

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1  Script created using the IEA IDB Analyzer (Version 3.2.0).
2  * Created on 3/19/2015 at 11:45 AM.
3  * Press Ctrl+A followed by Ctrl+R to submit this analysis.
4
5  include file = "C:\Users\egonzalez\AppData\Roaming\IEA\IDBAnalyzerV3\bin\Data\Templates\SPSS_Macros\JB_RegG.ieasps"
6
7  JB_RegG      infile="C:\Temp\IDB Analyzer Help Manual\Examples\Merged_PIRLS_Data.sav"/
8              cvar=IDCNTRY /
9              convar=ASBGSCR /
10             catvar=ASBG04 /
11             codings=E/
12             refcats=3/
13             ncats=5/
14             dvar=ASBG8LR /
15             wgt=TOTWGT/
16             jkz=JKZONE/
17             jkr=JKREP/
18             nrwt=150/
19             nomiss=Y/
20             method=JRR/
21             jk2type = FULL /
22             missing=listwise/
23             viewprgs=Y/
24             viewtbl=Y/
25             qcstats=Y/
26             newout=Y/
27             intavg=Y/
28             viewcod=N/
29             ndec=2/
30             clean = Y/
31             strctry = N/
32             selcrit = /
33             selvar = /
34             outdir="C:\Temp\IDB Analyzer Help Manual\Examples"/
35             outfile="LinearRegression".
36

```

The columns in the “_Desc” Excel file and SPSS dataset are the following:

- Grouping Variables: Grouping variables used in defining the groups in the analysis (only IDCNTRY in this case)
- EQVAR: Variables included in the analysis
- TOTWGT: Sum of the weights for cases in the groups defined by the Grouping Variables
- TOTWGT.se: Standard error of the sum of the weights
- Nobs: the number of cases used for this variable.
- MEAN: Means of the variables included in the linear regression equation
- STDEV: Standard deviations of the variables included in the linear regression equation
- VAR: Variances of the variables included in the linear regression equation
- MEAN.SE: Standard errors of the means of the variables included in the linear regression equation
- STDEV.SE: Standard errors of the standard deviations of the variables included in the linear regression equation
- VAR.SE: Standard errors of the variances of the variables included in the linear regression equation
- XVAR: The name of the independent variables in the analysis
- DVAR: The name of the dependent variable in the analysis