3. As Analysis Type, select **PIRLS (Using Student Weights)**. The weight variable is automatically selected by the software. As this is an example for analysis on student level, the weight TOTWGT is selected by default. For the correct weight and variance estimation variables, please refer to the technical documentation specific to the study.
4. From the **Statistic Type** dropdown menu, select **Percentiles**. From the **Plausible Values Option** dropdown menu, choose **Use PVs**. Leave the other dropdown menus unchanged.
5. In the next steps, all parameters for the analysis need to be defined:
    - As **Grouping Variable,** the software always selects variable IDCNTRY or its equivalent by default. Add the variable ITSEX as second grouping variable to obtain the percentiles of the plausible values by gender.
    - Click on the **Plausible Values** field, select the variable ASRREA01-05 (1st to 5th Overall Reading Plausible Values) and use the arrow button to place it as the plausible value variable or by double clicking on the variable name.
    - Specify the percentile points in the distribution clicking on the **Percentiles** field. For our example, we will compute the 25th, 50th and 75th percentiles. These need to be typed in increasing order separated by spaces.
6. Click on the **Define/Modify** button next to **Output Files** and specify the name of the output files. The filename will be used to create three files: an SPSS file with the syntax to perform the analysis, an SPSS file with the statistics from the analysis, and an Excel file with the statistics from the analysis.
7. Click on the **Start SPSS** button to create the SPSS syntax file and open it in an SPSS syntax window ready for execution. The syntax file must then be executed by opening the **Run** menu of the syntax window and selecting the **All** menu option. Alternatively you can also submit the code for processing with the keystrokes **Ctrl+A** (to select all), followed by **Ctrl+R** (to run the selection). The IDB Analyzer will give a warning if it is about to overwrite an existing file in the specified folder.

Figure 27 shows the IDB Analyzer Setup Screen for this analysis, Figure 28 shows the SPSS Syntax file created by the IDB Analyzer.

The SPSS output from the analysis displays unweighted and weighted descriptive statistics for all the variables in the analysis, along with the requested statistics.

SPSS output obtained from SPSS, Excel files and SPSS files with the results from this sample analysis can be found in the Examples folder.