The Merge Module is only available to use with IEA databases and others in which the data are published separated by country (OECD-TALIS, OECD-PIAAC, IADB-PRIDI, etc.).

The Merge Module is designed to combine data from the same assessment year. To combine data across 2 or more years, please refer to the Appendix of this Help Manual.

The Analysis Module

The Analysis Module of the IDB Analyzer provides procedures for the computation of means, percentages, standard deviations, correlations, and regression coefficients for any variable of interest overall for a country, and for specific subgroups within a country. It also computes percentages of people in the population that are within, at, or above benchmarks of performance or within user-defined cut points in the proficiency distribution, percentiles based on the achievement scale, or any other continuous variable.

The Analysis Module can be used to analyze data files from the above mentioned studies, regardless of whether they have been preprocessed with the IDB Analyzer Merge Module. The Analysis Module can create code for several analysis procedures. Like the Merge Module, the Analysis Module creates SPSS code that computes the statistics specified by the user.

The following analyses can be performed with the Analysis Module:

1. **Percentages and Means**: Computes percentages, means, design effects[9] and standard deviations for selected variables by subgroups defined by the user. The percent of missing responses is included in the output. New in 2016 is the computation of t-test statistics of group mean differences taking into account sample dependency.
2. **Percentages only**: Computes percentages by subgroups defined by the user.
3. **Linear Regression**: Computes linear regression coefficients for selected variables predicting a dependent variable by subgroups defined by the user. The IDB Analyzer has the capability of including plausible values as dependent or independent variables in the linear regression equation. It also has the capability of contrast coding categorical variables (dummy or effect) and including them in the linear regression equation.
4. **Logistic Regression**: Computes logistic regression coefficients for selected variables predicting a dependent dichotomous variable, by subgroups defined by the user. The IDB Analyzer has the capability of including plausible values as independent variables in the logistic regression equation. It also has the capability of contrast coding categorical variables and including them in the logistic regression equation.
5. **Benchmarks**: Computes percent of the population meeting a set of user-specified performance or achievement benchmarks by subgroups defined by the user. It computes these percentages in two modes: cumulative (percent of the population at or above given points in the distribution) or discrete (percent of the population within given points of the distribution). It can also compute the mean of an analysis variable for those at a particular achievement level when the discrete option is selected. New in 2016 is the computation of group mean and percent differences between groups taking into account sample dependency.
6. **Correlations**: Computes correlation for selected variables by subgroups defined by the grouping variable(s). The IDB Analyzer is capable of computing the correlation between sets of plausible values.

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[9] Calculation of design effects was added in the 2016 release version.