

SMTE 2017 Pre-conference Workshop 2
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Introduction to Secondary Data Analysis with International Database (IDB) Analyzer

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This workshop will provide an overview of the International Association for the Evaluation of Educational Achievement (IEA) databases with a particular emphasis on the most recently released database (i.e., Trends in International Mathematics and Science Study (TIMSS)). During the workshop, participants will be instructed on how to use the IEA IDB Analyzer. The IDB Analyzer is an application developed by the IEA-Data Processing Centre (DPC) to facilitate access to and analysis of the large-scale assessment databases available from IEA. The IDB Analyzer creates SPSS code that can be used with SPSS to conduct statistical analyses, taking into account the complex sample structure of the databases.

This workshop is aimed at individuals who have limited or superficial familiarity with IEA databases and analysis procedures. Participants are expected to bring their own laptop PC with Windows and SPSS installed that are required to use the IDB Analyzer. IDB Analyzer is freely downloadable from the IEA website or free copies of the IDB Analyzer will be distributed at the workshop.

The following topics will be covered during the workshop:

(i) Using the IDB Analyzer to combine datasets:

- Merging data from students, schools, teachers, and parents;
- Combining data from different countries; and
- Modifying and recoding data for analysis.

(ii) Using the IDB Analyzer to conduct analysis:

- Performing factor analysis and reliability analysis;
- Calculating percentages, means, and standard deviations;
- Calculating percentages of students meeting achievement benchmarks;
- Calculating correlations and regression coefficients.