

Basic SAS macros development for reducing program development and maintenance time in clinical reporting

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The article is mainly describe the purpose of the macro facility and efficiency of macro-based applications in clinical domain for creates, tests, and provides resolution to bugs, defects and other changes to the SAS macro library.

Fundamental concept of program flow, tokenization, %INCLUDE statement, %LET statement, macro triggers, macro statements, macro variables, global and local symbol tables, automatic macro variables, macro variable reference, substitution within a macro statement, substitution within a SAS literal, unresolved reference, substitution within SAS code, referencing macro variables, combining macro variables with text

Brief idea about macro functions, defining a macro, macro compilation, calling a macro ,macro storage, macro parameters, SYMPUT routine, creating a series of macro variables, creating macro variables in SQL, the need for macro-level programming, conditional processing, monitoring macro execution , macro syntax errors, parameter validation, developing macro-based applications, iterative processing, the SYMPUTX routine, rules for creating and updating variables, rules for resolving variables, multiple local tables. This article shows complete concept of the macro system.

Key Words: Program flow, developing macro-based applications, macro triggers, macro statements, macro variables, global and local symbol tables

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