

True or False: Evaluating Logical Expressions

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ABSTRACT

Description : The SAS® language provides methods to evaluate logical expressions which then allow conditional execution of parts of programs. In cases where logical expressions contain combinations of intersection (and), negation (not), and union (or) users and later readers doing maintenance may legitimately and thoughtfully question whether the expression is correct.

Topics covered include theory of logic and logical evaluation in data step, macros, and procedures (where clause).

Audience : intermediate to advanced users.

Keywords : binary, boolean, DeMorgan's law, evaluation, fuzzy logic, logical operators, ternary

Information : Truth tables of binary, boolean, DeMorgan's laws, fuzzy, and ternary-valued logical evaluations.

Contents

This paper contains the following topics:

- Basic Concepts of Logic
 - Logical Operators
 - Precedence of Evaluation
 - Truth Tables

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This paper is available on the web:

Fehd [1, sas-wiki.Eval-Logical-Expressions]

References

- [1] Ronald J. Fehd. Evaluating logical expressions. In *SAS Community Wikipedia*, 2009. URL http://www.sascommunity.org/wiki/Evaluating_Logical_Expressions. topics: truth tables of binary, boolean, DeMorgan's laws, fuzzy, and ternary-valued logical evaluations.

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