

































-  Secrets
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T-SQL static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your T-SQL code

- All rules 80
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Loops with at most one iteration should be refactored		Bug
Variables should not be self-assigned		Bug
"GOTO" statements should not be used		Code Smell
Deprecated system tables and views should not be used		Code Smell
"ANSI_NULLS", "ANSI_PADDING" and "CONCAT_NULL_YIELDS_NULL" should not be configured		Code Smell
"@@IDENTITY" should not be used		Code Smell
"COALESCE", "IIF", and "CASE" input expressions should not contain subqueries		Code Smell
"CHECK" or "NOCHECK" should be specified explicitly when constraints are activated		Code Smell
Deprecated features should not be used		Code Smell
Multiline blocks should be enclosed in BEGIN...END blocks		Code Smell
Two branches in a conditional structure should not have exactly the same implementation		Code Smell
"LIKE" clauses should not start with wildcard characters		Code Smell

Loops with at most one iteration should be refactored

[Analyze your code](#)

 Bug  Major 

A `WHILE` loop with at most one iteration is equivalent to the use of an `IF` statement to conditionally execute one piece of code. No developer expects to find such usage of a loop statement. If the initial intention of the author was really to conditionally execute one piece of code, an `IF` statement should be used in place.

At worst that was not the initial intention of the author and so the body of the loop should be fixed to use the nested `RETURN`, `BREAK` or `THROW` statements in a more appropriate way.

Noncompliant Code Example

```
WHILE @cond -- noncompliant, loop only executes once
BEGIN
    EXEC something;
    BREAK;
END;
...
WHILE @cond1 -- noncompliant, loop only executes once
BEGIN
    IF @cond2
    BEGIN
        EXEC something;
        BREAK;
    END ELSE
    BEGIN
        RETURN @value;
    END;
END;
```

Compliant Solution

```
IF @cond
BEGIN
    EXEC something;
    BREAK;
END;
...
WHILE @cond
BEGIN
    IF @cond2
    BEGIN
        EXEC something;
    END ELSE
    BEGIN
        RETURN @value;
    END;
END;
```

Available In:

 |  |  Developer Edition