

# T-SQL static code analysis: Control flow statements "IF", "WHILE" and "TRY" should not be nested too deeply

1 minute

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Nested IF . . . ELSE, WHILE and TRY . . . CATCH statements is a key ingredient for making what's known as "Spaghetti code".

Such code is hard to read, refactor and therefore maintain.

## Noncompliant Code Example

With the default threshold of 4:

```
IF @flag1 = 1 -- Compliant - depth = 1
BEGIN
    IF @flag2 = 2 -- Compliant - depth = 2
    BEGIN
        WHILE @var1 > 0 -- Compliant - depth = 3
        BEGIN
            IF @flag3 = 3 -- Compliant - depth = 4, not exceeding
the limit
            BEGIN
                IF @flag4 = 4 -- Noncompliant - depth = 5
                BEGIN
                    IF @flag5 = 5 -- Depth = 6, exceeding the limit, but
issues are only reported on depth = 5
```

BREAK

END

END

SET @var1 = @var1 - 1

END

END

END