



# T-SQL static code analysis

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

All rules 80

## Vulnerability ①

 Bug 16

 Security Hotspot 4

Code Smell (59)

## Tags

Search by name...

Conditionally executed code should be denoted by either indentation or BEGIN...END block

 Code Smell

## Conditionals should start on new lines

 Code Smell

"INSERT" statements should explicitly list the columns to be set

 Code Smell

## Output parameters should be assigned

 Bug

## Queries that use "TOP" should have an "ORDER BY"

 Bug

All branches in a conditional structure should not have exactly the same implementation

 Bug

**"WHERE" clause conditions should not be contradictory**

 Bug

## Unary prefix operators should not be repeated

 Bug

## "NULL" should not be compared directly

 Bug

Related "IF"/"ELSE IF" statements and "WHEN" clauses in a "CASE" should not have the same condition

 Bug

Identical expressions should not be used on both sides of a binary operator

 Bug

**Conditionally executed code should be denoted by either indentation or BEGIN...END block**

## Analyze your code

 Code Smell
  Critical
 
 confusing suspicious

In the absence of enclosing `BEGIN . . . END` block, the line immediately after a conditional is the one that is conditionally executed. By both convention and good practice, such lines are indented. In the absence of both `BEGIN . . . END` block and indentation the intent of the original programmer is entirely unclear and perhaps not actually what is executed. Additionally, such code is highly likely to be confusing to maintainers.

## Noncompliant Code Example

```
IF @condition -- Noncompliant
EXEC doTheThing;
EXEC doTheOtherThing;
EXEX somethingElseEntirely;
```

```
EXEC foo;
```

## Compliant Solution

```
IF @condition
BEGIN
    EXEC doTheThing;
    EXEC doTheOtherThing;
    EXEX somethingElseEntirely;
END;

EXEC foo;
```

Or

```
IF @condition
    EXEC doTheThing;
EXEC doTheOtherThing;
EXEX somethingElseEntirely;
```

```
EXEC foo;
```

Available In:

**sonarlint**  | **sonarcloud**  | **sonarqube**  Developer Edition