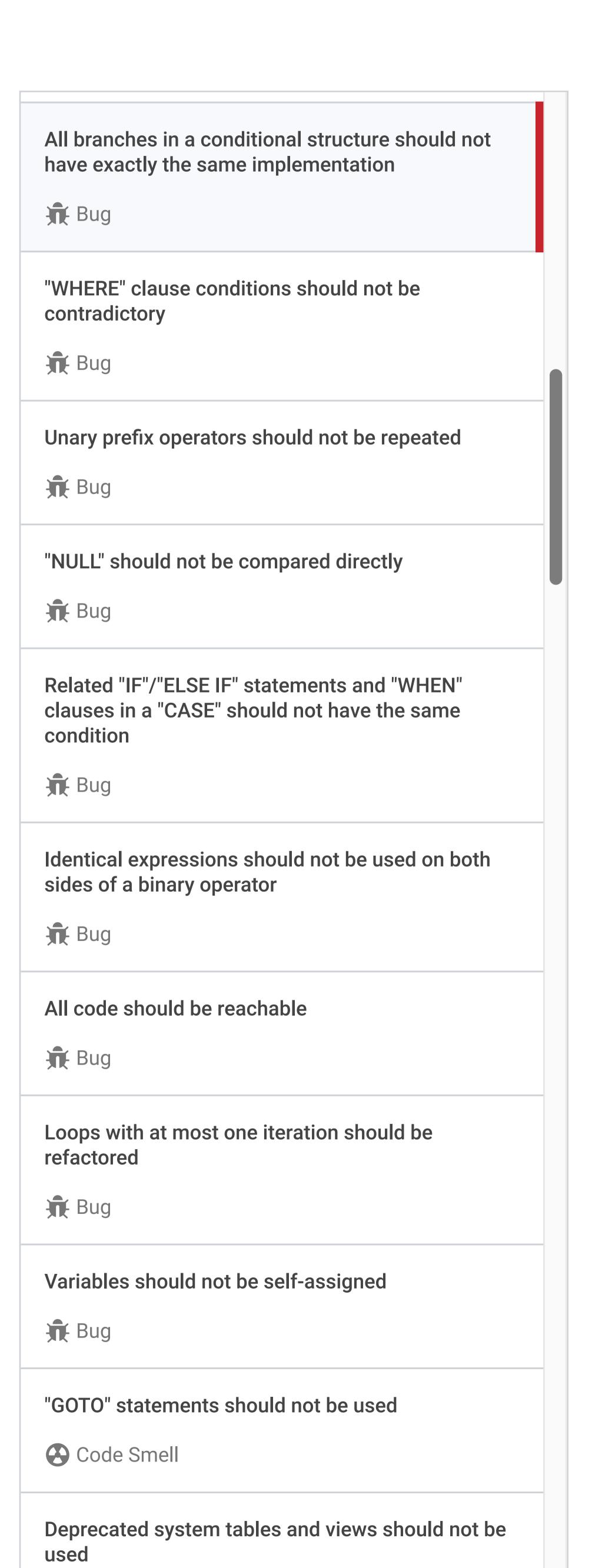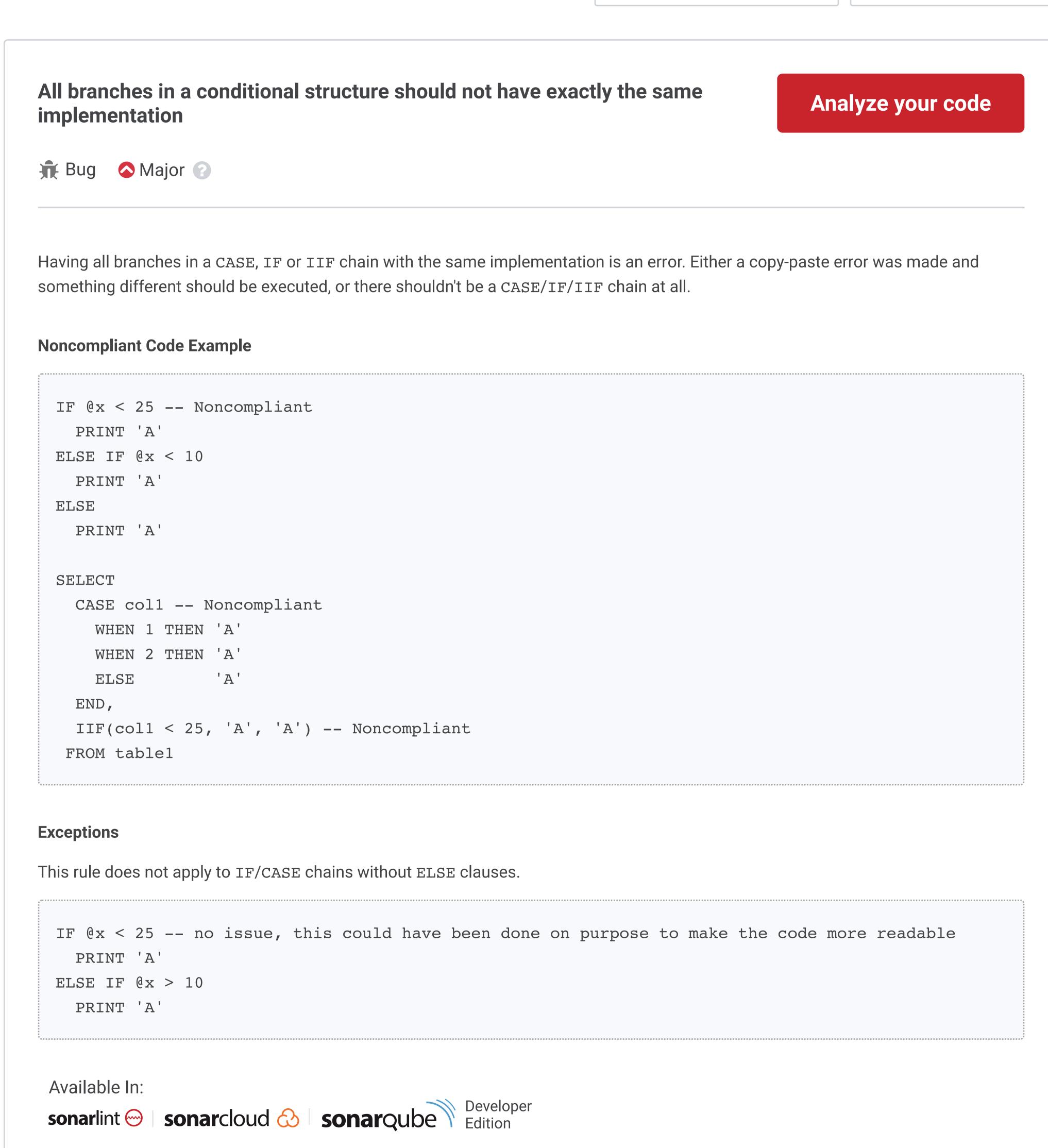# T-SQL static code analysis

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

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All rules `80` 🔒 Vulnerability `①` 🐛 Bug `16` 🛡 Security Hotspot `④` ⚫ Code Smell `59`

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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

All code should be reachable
🐛 Bug

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

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

Analyze your code

🐛 Bug   🔺 Major ⓘ

Having all branches in a `CASE`, `IF` or `IIF` chain with the same implementation is an error. Either a copy-paste error was made and something different should be executed, or there shouldn't be a `CASE/IF/IIF` chain at all.

Noncompliant Code Example

```
IF @x < 25 -- Noncompliant
  PRINT 'A'
ELSE IF @x < 10
  PRINT 'A'
ELSE
  PRINT 'A'

SELECT
  CASE col1 -- Noncompliant
    WHEN 1 THEN 'A'
    WHEN 2 THEN 'A'
    ELSE        'A'
  END,
  IIF(col1 < 25, 'A', 'A') -- Noncompliant
  FROM table1
```

Exceptions

This rule does not apply to `IF/CASE` chains without `ELSE` clauses.

```
IF @x < 25 -- no issue, this could have been done on purpose to make the code more readable
  PRINT 'A'
ELSE IF @x > 10
  PRINT 'A'
```

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