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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 | 🔒 Vulnerability ① | 🐛 Bug 16 | 🛡 Security Hotspot ④ | ☢ Code Smell 59

Tags ⌄   Search by name...

A primary key should be specified during table creation
☢ Code Smell

Track lack of copyright and license headers
☢ Code Smell

SHA-1 and Message-Digest hash algorithms should not be used in secure contexts
🔒 Vulnerability

"NOCOUNT" should be activated on "PROCEDURE" and "TRIGGER" definitions
☢ Code Smell

Control flow statements "IF", "WHILE" and "TRY" should not be nested too deeply
☢ Code Smell

"CASE" expressions should end with "ELSE" clauses
☢ Code Smell

"IF ... ELSEIF" constructs should end with "ELSE" clauses
☢ Code Smell

Control structures should use BEGIN...END blocks
☢ Code Smell

String literals should not be duplicated
☢ Code Smell

Expressions should not be too complex
☢ Code Smell

"WHERE" clauses should not contain redundant conditions
🐛 Bug

A primary key should be specified during table creation

Analyze your code

☢ Code Smell   ❗ Blocker ❓   🏷 suspicious

Tables without primary keys are largely unusable in a relational database because they cannot be joined to. A primary key should be specified at table creation to guarantee that all its records have primary key values.

Noncompliant Code Example

```
CREATE TABLE employee
(
  employee_id INTEGER NOT NULL,
  first_name VARCHAR(42) NOT NULL,
  last_name VARCHAR(42) NOT NULL
);
```

Compliant Solution

```
CREATE TABLE employee
(
  employee_id INTEGER NOT NULL PRIMARY KEY,
  first_name VARCHAR(42) NOT NULL,
  last_name VARCHAR(42) NOT NULL
);
```

```
CREATE TABLE employee
(
  employee_id INTEGER NOT NULL,
  first_name VARCHAR(42) NOT NULL,
  last_name VARCHAR(42) NOT NULL,
  CONSTRAINT PK_Employee PRIMARY KEY (employee_id)
);
```

Exceptions

No issue is reported on temporary tables as they are often used to manipulate data and do not always require a primary key.

Example:

```
CREATE TABLE #EmployeeName (last_name VARCHAR(42) NOT NULL); -- Compliant
```

Available In:

sonarlint | sonarcloud | sonarqube Developer Edition