

































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PL/SQL

## PL/SQL static code analysis

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

All rules

188

 Vulnerability

4

 Bug

45

 Security Hotspot

2

 Code Smell

137

Tags

Search by name...



Inserts should include values for non-null columns

 Bug

Variables should be declared only once in a scope

 Bug

Size should be specified for string variables

 Bug

Predefined exceptions should not be overridden

 Bug

"NOT NULL" variables should be initialized

 Bug

"NCHAR" and "NVARCHAR2" size should not be specified in bytes

 Bug

"END LOOP" should be followed by a semicolon

 Bug

Constraints should not be applied to types that cannot be constrained

 Bug

Improper constraint forms should not be used

 Bug

Scale should not be specified for float types

 Bug

Constant declarations should contain initialization assignments

 Bug

"RAISE\_APPLICATION\_ERROR" should only be used with error codes from -20,000 to -20,999

 Bug

"FETCH ... BULK COLLECT INTO" should not be used without a "LIMIT" clause

 Bug

Anchored types should not be constrained

Inserts should include values for non-null columns

Analyze your code

 Bug

 Blocker



 sql

Any insert which omits a value for a NOT NULL column in a database table will be automatically rejected by the database unless a default value has been specified for the column.

### Noteworthy

This rule raises issues only when a **Data Dictionary** is provided during the analysis.  
See <https://docs.sonarqube.org/display/PLUG/Data+Dictionary>

### Noncompliant Code Example

With the table MY\_TABLE having a NOT NULL column N2 without default value and a NOT NULL column N3 with default value:

```
INSERT INTO MY_TABLE -- Noncompliant; N2 value omitted
(
    N1
)
VALUES
(
    1
)
```

### Compliant Solution

```
INSERT INTO MY_TABLE -- Compliant even though N3 value not supplied
(
    N1,
    N2
)
VALUES
(
    1,
    'Paul '
)
```

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Developer Edition