

































-  Secrets
-  ABAP
-  Apex
-  C
-  C++
-  CloudFormation
-  COBOL
-  C#
-  CSS
-  Flex
-  Go
-  HTML
-  Java
-  JavaScript
-  Kotlin
-  Kubernetes
-  Objective C
-  PHP
-  PL/I
-  **PL/SQL**
-  Python
-  RPG
-  Ruby
-  Scala
-  Swift
-  Terraform
-  Text
-  TypeScript
-  T-SQL
-  VB.NET
-  VB6
-  XML

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

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Search by name...

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"GOTO" statements should not be used

 Code Smell

"TO_NUMBER" should be used with a format model

 Code Smell

Labels should not be reused in inner scopes

 Code Smell

"FUNCTIONS" should not have "OUT" parameters

 Code Smell

Variables should be nullable

 Code Smell

"VARCHAR2" should be used

 Code Smell

Native SQL joins should be used

 Code Smell

"FORALL" should be used

 Code Smell

"FETCH ... BULK COLLECT INTO" should be used

 Code Smell

Column aliases should be defined using "AS"

 Code Smell

Procedures and functions should be encapsulated in packages

 Code Smell

Procedures should have parameters

 Code Smell

"EXECUTE IMMEDIATE" should be used instead of DBMS_SQL procedure calls

 Code Smell

"GOTO" statements should not be used

 Code Smell

 Major 

 brain-overload

A GOTO statement is an unstructured change in the control flow. They should be avoided and replaced by structured constructs.

Noncompliant Code Example

```
SET SERVEROUTPUT ON

DECLARE
    i PLS_INTEGER := 42;
BEGIN
    IF i < 0 THEN
        GOTO negative; -- Noncompliant
    END IF;

    DBMS_OUTPUT.PUT_LINE('positive');
    goto cleanup; -- Noncompliant

    <<negative>>
    DBMS_OUTPUT.PUT_LINE('negative!');

    <<cleanup>>
    NULL;
END;
/
```

Compliant Solution

```
SET SERVEROUTPUT ON

DECLARE
    i PLS_INTEGER := 42;
BEGIN
    IF i < 0 THEN
        DBMS_OUTPUT.PUT_LINE('negative!'); -- Compliant
    ELSE
        DBMS_OUTPUT.PUT_LINE('positive');
    END IF;
END;
/
```

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