


















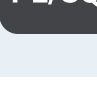














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# PL/SQL static code analysis

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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 Bug
"ROWNUM" should not be used at the same query level as "ORDER BY"
 Bug
All branches in a conditional structure should not have exactly the same implementation
 Bug
Strings should only be moved to variables or columns which are large enough to hold them
 Bug
"WHERE" clause conditions should not be contradictory
 Bug
Unary prefix operators should not be repeated
 Bug
DML events clauses should not include multiple "OF" clauses
 Bug
"PACKAGE BODY" initialization sections should not contain "RETURN" statements
 Bug
"NULL" should not be compared directly
 Bug
"MLSLABEL" should not be used
 Bug
"VARCHAR2" and "NVARCHAR2" should be used
 Bug
Related "IF/ELSIF" 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

## Output parameters should be assigned

Analyze your code

 Bug

 Major 

 pitfall

Marking a parameter for output means that callers will expect its value to be updated with a result from the execution of the procedure. Failing to update the parameter before the procedure returns is surely an error.

### Noncompliant Code Example

```
CREATE OR REPLACE PROCEDURE greet(  
  name      IN  VARCHAR2,  
  greeting OUT VARCHAR2) -- Noncompliant  
AS  
  message VARCHAR2(45);  
BEGIN  
  SELECT 'Hello ' || RTRIM(name) INTO message FROM DUAL;  
END;
```

### Compliant Solution

```
CREATE OR REPLACE PROCEDURE greet(  
  name      IN  VARCHAR2,  
  greeting OUT VARCHAR2)  
AS  
BEGIN  
  SELECT 'Hello ' || RTRIM(name) INTO greeting FROM DUAL;  
END;
```

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