


















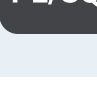














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## PL/SQL static code analysis

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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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

 Bug

All code should be reachable

 Bug

Loops with at most one iteration should be refactored

 Bug

Variables and columns should not be self-assigned

Strings should only be moved to variables or columns which are large enough to hold them

Analyze your code

 Bug

 Major



 cwe

Trying to assign a large character value to a smaller variable or column will raise an error.

### Noncompliant Code Example

```
create table persons (id number, name varchar2(4));

insert into persons (id, name) values (1, 'Alice'); -- Noncompliant, raises ORA-12899

create or replace procedure sp1
is
    foo varchar2(2);
begin
    select name into foo from persons where id = 1; -- Noncompliant, may raise ORA-06502
end;
```

### Compliant Solution

```
create table persons (id number, name varchar2(8));

insert into persons (id, name) values (1, 'Alice');

create or replace procedure sp1
is
    foo varchar2(8);
begin
    select name into foo from persons where id = 1;
end;
```

### See

- [MITRE, CWE-704](#) - Incorrect Type Conversion or Cast

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