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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

Search by name...

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

Bug

All code should be reachable

"ROWNUM" should not be used at the same query level as "ORDER BY"

Analyze your code

Bug Major sql

Oracle's ROWNUM is a pseudo column that numbers the rows in a result set. Unfortunately, it numbers the rows in the set *before* ordering is applied. So combining the two in the same query won't get you the results you expect. Instead, you should move your selection and ordering into a subquery, and use ROWNUM only on the outer query.

Noncompliant Code Example

```
SELECT fname, lname, deptId
FROM employee
WHERE rownum <= 10
ORDER BY salary -- Noncompliant
```

Compliant Solution

```
SELECT *
FROM ( SELECT fname, lname, deptId
      FROM employee
      ORDER BY salary
    )
WHERE rownum <= 10
```

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