


















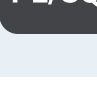














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PL/SQL

PL/SQL static code analysis

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

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Tags

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Blocks containing "EXECUTE IMMEDIATE" should trap all exceptions

 Code Smell

"EXCEPTION_INIT -20,NNN" calls should be centralized

 Code Smell

"CREATE OR REPLACE" should be used instead of "CREATE"

 Code Smell

Block labels should appear on the same lines as "END"

 Code Smell

"LOOP ... END LOOP;" constructs should be avoided

 Code Smell

"IF" statements should not be nested too deeply

 Code Smell

"CASE" expressions should end with "ELSE" clauses

 Code Smell

String literals should not be duplicated

 Code Smell

Constant names should comply with a naming convention

 Code Smell

Output parameters should be assigned

 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

Blocks containing "EXECUTE IMMEDIATE" should trap all exceptions

Analyze your code

 Code Smell  Critical  error-handling

Since the purpose of the `EXECUTE IMMEDIATE` statement is to execute dynamic SQL queries - which by definition can contain unexpected errors - properly handling exceptions becomes critical. Therefore, care should be taken to trap all possible exceptions.

Noncompliant Code Example

```
DECLARE
    result      VARCHAR2(42);
    column      VARCHAR2(42);
BEGIN
    column := 'DUMMY_2';
    EXECUTE IMMEDIATE 'SELECT ' || column || ' FROM DUAL' INTO result; -- Non-Compliant
END;
/
```

Compliant Solution

```
SET SERVEROUTPUT ON

DECLARE
    result      VARCHAR2(42);
    column      VARCHAR2(42);
BEGIN
    column := 'DUMMY_2';
    EXECUTE IMMEDIATE 'SELECT ' || column || ' FROM DUAL' INTO result; -- Compliant
EXCEPTION
    WHEN OTHERS THEN
        DBMS_OUTPUT.PUT_LINE ('Execute immediate error: ' || DBMS_UTILITY.FORMAT_ERROR_STACK);
END;
/
```

Available In:

sonarlint  | sonarcloud  | sonarqube  Developer Edition