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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

All rules 188 Vulnerability 4 Bug 45 Security Hotspot 2 Code Smell 137

Tags

Search by name...

Exceptions should not be ignored
Code Smell

Variables should not be initialized with "NULL"
Code Smell

Boolean checks should not be inverted
Code Smell

Unused local variables should be removed
Code Smell

Package names should comply with a naming convention
Code Smell

Variables should comply with a naming convention
Code Smell

Return of boolean expressions should not be wrapped into an "if-then-else" statement
Code Smell

Boolean literals should not be redundant
Code Smell

Comments should not be nested
Code Smell

"DBMS_UTILITY.FORMAT_ERROR_STACK" and "FORMAT_ERROR_BACKTRACE" should be used together
Code Smell

Procedures should not contain "RETURN" statements
Code Smell

Track uses of "TODO" tags
Code Smell

Exceptions should not be ignored

Analyze your code

Code Smell Minor cwe error-handling owasp suspicious

When exceptions occur, it is usually a bad idea to simply ignore them. Instead, it is better to handle them properly, or at least to log them.

Noncompliant Code Example

```
SET SERVEROUTPUT ON

DECLARE
  d VARCHAR2(1);
BEGIN
  SELECT dummy INTO d FROM DUAL WHERE dummy = 'Y'; -- Will raise NO_DATA_FOUND
  DBMS_OUTPUT.PUT_LINE('d = ' || d);
EXCEPTION
  WHEN NO_DATA_FOUND THEN -- Noncompliant, did we really want to mask this exception?
    NULL;
END;
/
```

Compliant Solution

```
SET SERVEROUTPUT ON

DECLARE
  d VARCHAR2(1);
BEGIN
  SELECT dummy INTO d FROM DUAL WHERE dummy = 'Y'; -- Will raise NO_DATA_FOUND
  DBMS_OUTPUT.PUT_LINE('d = ' || d);
EXCEPTION
  WHEN NO_DATA_FOUND THEN
    DBMS_OUTPUT.PUT_LINE('Error: No data found');
END;
/
```

See

- OWASP Top 10 2017 Category A10 - Insufficient Logging & Monitoring
- MITRE, CWE-391 - Unchecked Error Condition

Available In:
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