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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

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⚙ Code Smell

SQL statements should not join too many tables
⚙ Code Smell

Function and procedure names should comply with a naming convention
⚙ Code Smell

Columns to be read with a "SELECT" statement should be clearly defined
⚙ Code Smell

"CASE" structures should not have too many "WHEN" clauses
⚙ Code Smell

Deprecated LONG and LONG RAW datatypes should no longer be used
⚙ Code Smell

Sections of code should not be commented out
⚙ Code Smell

Unused procedure and function parameters should be removed
⚙ Code Smell

SQL EXISTS subqueries should not be used
⚙ Code Smell

Track uses of "FIXME" tags
⚙ Code Smell

Variables should not be shadowed
⚙ Code Smell

Redundant pairs of parentheses should be removed
⚙ Code Smell

SQL statements should not join too many tables

Analyze your code

⚙ Code Smell ⬤ Major ⍰ 🏷 performance brain-overload sql

When you need access to data from multiple tables, it is more efficient, effective, and understandable to use pre-built views than to select the data from a large number of tables - effectively creating in-memory views - at runtime.

Noncompliant Code Example

With a maximum number of 3 joined tables:

```
SELECT PERSONS.NAME, COUNTRIES.NAME, GENRES.NAME, PROFESSIONS.NAME
FROM PERSONS
   INNER JOIN COUNTRIES ON COUNTRIES.ID = PERSON.COUNTRY_ID
   INNER JOIN GENRES ON GENRES.ID = PERSONS.GENRE_ID
   INNER JOIN PROFESSIONS ON PROFESSIONS.ID = PERSONS.PROFESSIONS_ID  -- Noncompliant; this is tabl
WHERE COUNTRIES.CODE = 'US'

SELECT PERSONS.NAME, COUNTRIES.NAME, GENRES.NAME, PROFESSIONS.NAME
FROM PERSONS, COUNTRIES, GENRES, PROFESSIONS -- Noncompliant
WHERE COUNTRIES.CODE = 'US' AND COUNTRIES.ID = PERSON.COUNTRY_ID AND GENRES.ID = PERSONS.GENRE_ID
```

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