













































-  Secrets
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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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	Code Smell
"CASE" should be used rather than "DECODE"	
"CROSS JOIN" queries should not be used	
"END" statements of labeled blocks should be labeled	
Two branches in a conditional structure should not have exactly the same implementation	
Unused assignments should be removed	
"LIKE" clauses should not start with wildcard characters	
Column names should be used in a SQL "ORDER BY" clause	
Procedures and functions should be documented	
SQL statements should not join too many tables	
Function and procedure names should comply with a naming convention	
Columns to be read with a "SELECT" statement should be clearly defined	

Tags ▾

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"CASE" should be used rather than "DECODE"

Analyze your code

 Code Smell  Major   obsolete

DECODE is an old function that has been replaced by the easier to understand and more common CASE. Unlike DECODE, CASE may also be used directly within PL/SQL.

Noncompliant Code Example

```
SET SERVEROUTPUT ON

DECLARE
  operand CHAR(1) := 'B';
  l_result PLS_INTEGER;
BEGIN
  -- Noncompliant
  SELECT DECODE(operand, 'A', 1
                  , 'B', 2
                  , 'C', 3
                  , 'D', 4
                  , 'E', 5
                  , 'F', 6
                  , 7)

  INTO l_result
  FROM dual;

  DBMS_OUTPUT.PUT_LINE('l_result = ' || l_result); -- 2
END;
/
```

Compliant Solution

```
SET SERVEROUTPUT ON

DECLARE
  operand CHAR(1) := 'B';
  l_result PLS_INTEGER;
BEGIN

  l_result := CASE operand
              WHEN 'A' THEN 1
              WHEN 'B' THEN 2
              WHEN 'C' THEN 3
              WHEN 'D' THEN 4
              WHEN 'E' THEN 5
              WHEN 'F' THEN 6
              ELSE 7
  END;

  DBMS_OUTPUT.PUT_LINE('l_result = ' || l_result); -- 2
END;
/
```

Exceptions

No issue is raised when DECODE contains only one case (i.e. only one search and one result components) because using CASE would make the code less readable in this scenario.

Available In:

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