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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
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Tags

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Loops with at most one iteration should be refactored

 Bug

Variables and columns should not be self-assigned

 Bug

"IF" statement conditions should not evaluate unconditionally to "TRUE" or to "FALSE"

 Bug

The "result\_cache" hint should be avoided

 Bug

"GOTO" statements should not be used

 Code Smell

"TO\_NUMBER" should be used with a format model

 Code Smell

Labels should not be reused in inner scopes

 Code Smell

"FUNCTIONS" should not have "OUT" parameters

 Code Smell

Variables should be nullable

 Code Smell

"VARCHAR2" should be used

 Code Smell

Native SQL joins should be used

 Code Smell

"FORALL" should be used

 Code Smell

"FETCH ... BULK COLLECT INTO" should be used

 Code Smell

Column aliases should be defined using "AS"

## Loops with at most one iteration should be refactored

Analyze your code

 Bug  Major 

A loop with at most one iteration is equivalent to the use of an `IF` statement to conditionally execute one piece of code. No developer expects to find such usage of a loop statement. If the initial intention of the author was really to conditionally execute one piece of code, an `IF` statement should be used in place.

At worst that was not the initial intention of the author and so the body of the loop should be fixed to use the nested `RETURN`, `EXIT`, `RAISE` or `GOTO` statements in a more appropriate way.

### Noncompliant Code Example

```
LOOP
  counter := counter + 1;
  dbms_output.put_line(counter);
  EXIT;    -- Noncompliant
END LOOP;
```

### Compliant Solution

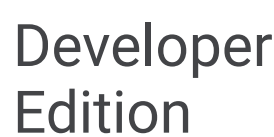
```
LOOP
  counter := counter + 1;
  IF counter > 10 THEN
    EXIT;
  ELSE
    dbms_output.put_line(counter);
  END IF;
END LOOP;
```

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 Developer Edition