Secrets

SAP ABAP

APEX Apex

C

C++

CloudFormation

COBOL COBOL

C# C#

CSS

_

X Flex

=GO

5 HTML

Go

Java

Js JavaScript

I/o+lip

Kubernetes

Objective C

Php PHP

PL/I

PL/SQL

Python

RPG

Ruby

Scala

Swift

E Text

Terraform

тs TypeScript

T-SQL

VB VB.NET

VBIITE

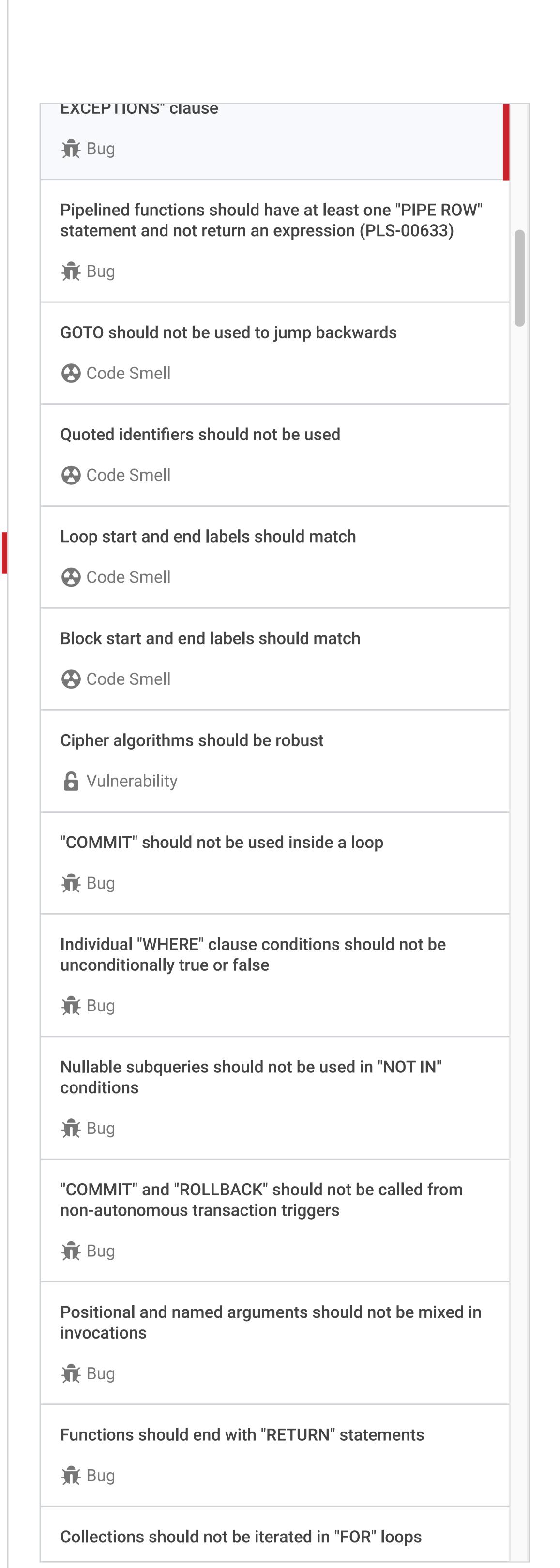
VB6 VB6

XML XML



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





```
Tags
                                                                           Search by name...
                                                                                   Analyze your code
"FORALL" statements should use the "SAVE EXCEPTIONS" clause
Rug Blocker
When the FORALL statement is used without the SAVE EXCEPTIONS clause and an exception is raised by a DML query, the whole
operation is rolled back and the exception goes unhandled. Instead of relying on this default behavior, it is better to always use the SAVE
EXCEPTIONS clause and explicitly handle exceptions in a ORA-24381 handler.
Noncompliant Code Example
  CREATE TABLE my_table(
   id NUMBER(10) NOT NULL
  DECLARE
    TYPE my_table_id_type IS TABLE OF my_table.id%TYPE;
    my_table_ids my_table_id_type := my_table_id_type();
  BEGIN
    FOR i IN 1 .. 10 LOOP
      my_table_ids.EXTEND;
      my_table_ids(my_table_ids.LAST) := i;
    END LOOP;
    -- Cause the failure
    my_table_ids(10) := NULL;
    FORALL i IN my_table_ids.FIRST .. my_table_ids.LAST -- Noncompliant
      INSERT INTO my_table
      VALUES (my_table_ids(i));
  END;
  SELECT COUNT(*) FROM my_table;
  DROP TABLE my_table;
Compliant Solution
  -- . . .
  DECLARE
   TYPE my_table_id_type IS TABLE OF my_table.id%TYPE;
    my_table_ids my_table_id_type := my_table_id_type();
    bulk_errors EXCEPTION;
    PRAGMA EXCEPTION_INIT(bulk_errors, -24381);
  BEGIN
    FOR i IN 1 .. 10 LOOP
     my_table_ids.EXTEND;
      my_table_ids(my_table_ids.LAST) := i;
    END LOOP;
    -- Cause the failure
    my_table_ids(10) := NULL;
    FORALL i IN my_table_ids.FIRST .. my_table_ids.LAST SAVE EXCEPTIONS
      INSERT INTO my_table
      VALUES (my_table_ids(i));
  EXCEPTION
    WHEN bulk_errors THEN
      -- Explicitly rollback the whole transaction,
      -- or handle each exception individually by looping over SQL%BULK_EXCEPTIONS
      ROLLBACK;
  END;
  -- . . .
 Available In:
sonarlint  sonarcloud  sonarqube Developer Edition
```