Products >

Search by name...



PL/SQL

Secrets

ABAP

Apex

C++

CloudFormation

COBOL

C#

CSS

Flex

Go

HTML

Java

JavaScript

Kubernetes

Kotlin

Objective C

PHP

PL/I

PL/SQL

Python

RPG

Ruby

Scala

Terraform

Swift

Text

TypeScript

T-SQL

VB.NET

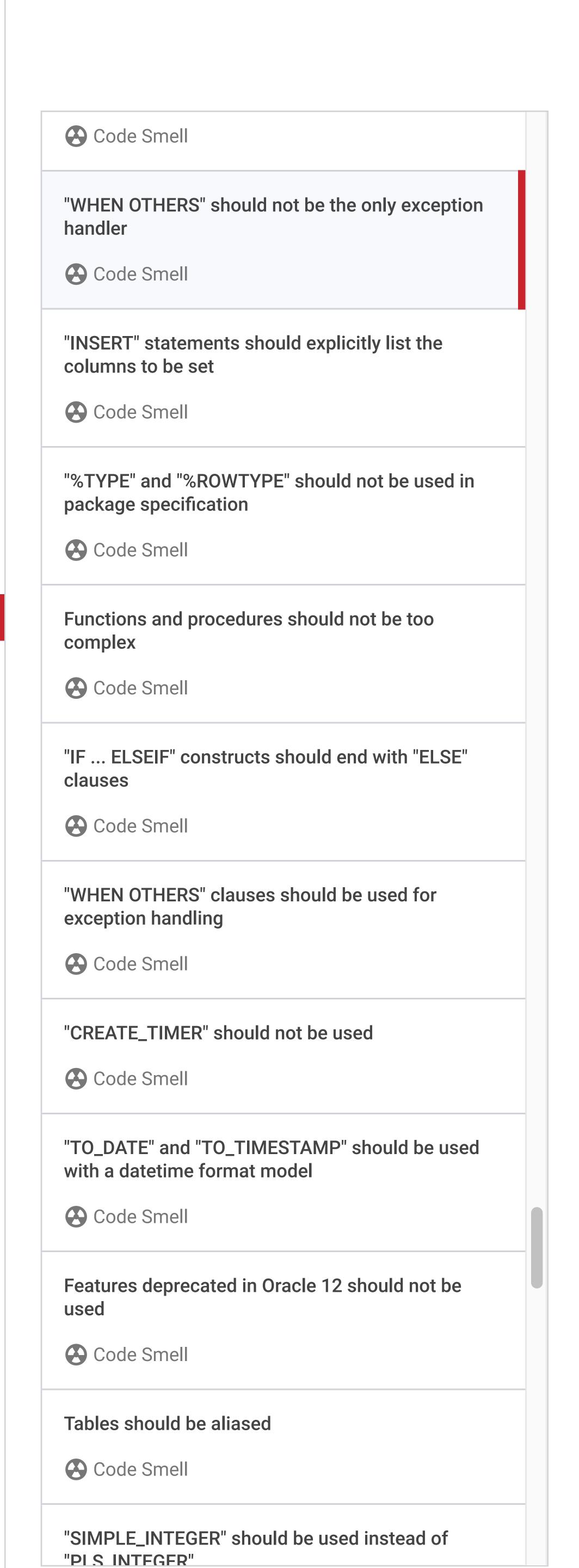
VB6

XML

PL/SQL static code analysis

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

6 Vulnerability 4 **R** Bug (45) Security Hotspot 2 All rules 188



```
Analyze your code
"WHEN OTHERS" should not be the only exception handler
Before trapping all possible exceptions, it is best to try to trap the specific ones and try to recover from those.
Noncompliant Code Example
 SET SERVEROUTPUT ON
 CREATE TABLE hitCounter
   page VARCHAR2(42),
   hits NUMBER,
   CONSTRAINT pk PRIMARY KEY (page)
 CREATE PROCEDURE hitPage(pageIn VARCHAR2) AS
 BEGIN
   INSERT INTO hitCounter VALUES (pageIn, 1);
 EXCEPTION -- Noncompliant, the only exception handler is WHEN OTHERS
   WHEN OTHERS THEN
     IF SQLCODE = -1 THEN
       UPDATE hitCounter SET hits = hits + 1 WHERE page = pageIn;
     ELSE
       DBMS_OUTPUT.PUT_LINE('An unknown error occured!');
     END IF;
  END;
 BEGIN
   hitPage('index.html');
   hitPage('index.html');
  END;
 SELECT * FROM hitCounter;
 DROP PROCEDURE hitPage;
 DROP TABLE hitCounter;
```

Tags

Code Smell (137)

Compliant Solution

```
SET SERVEROUTPUT ON
CREATE TABLE hitCounter
  page VARCHAR2(42),
  hits NUMBER,
 CONSTRAINT pk PRIMARY KEY (page)
CREATE PROCEDURE hitPage(pageIn VARCHAR2) AS
BEGIN
  INSERT INTO hitCounter VALUES (pageIn, 1);
EXCEPTION
 WHEN DUP_VAL_ON_INDEX THEN
    UPDATE hitCounter SET hits = hits + 1 WHERE page = pageIn;
  WHEN OTHERS THEN
    DBMS_OUTPUT.PUT_LINE('An unknown error occured!');
END;
BEGIN
 hitPage('index.html');
 hitPage('index.html');
END;
SELECT * FROM hitCounter;
DROP PROCEDURE hitPage;
DROP TABLE hitCounter;
```

See

MITRE, CWE-396 - Declaration of Catch for Generic Exception

Available In:

sonarlint sonarcloud sonarqube Developer Edition