Code coverage for PL/SQL

Asked 16 years, 2 months ago   Modified 3 years, 4 months ago

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Does anyone have tools or experience with code coverage for PL/SQL. I believe this is possible using DBMS_PROFILER?

oracle-database   plsql

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asked Sep 30, 2008 at 9:55

Matthew Watson
14.2k 🟡 9 ⚪ 63 🟤 82

6 Answers

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http://www.toadworld.com/BLOGS/tabid/67/EntryID/267/Default.aspx has info about checking code coverage using the PL/SQL profiler.

Some helpful info about profiling on 9i or 10g is included in Metalink Article 243755.1 "Implementing and Using the PL/SQL Profiler" for information on profiling code. Grab the prof.zip from the bottom of the article, it has a profiler.sql which will nicely format your results after a profiling run.

More 10g documentation is available here without a MetaLinka account:

http://download.oracle.com/docs/cd/B19306_01/appdev.102/b14258/d_profil.htm

If you are running 11g there is a new Hierarchical Profiler documented here:

http://download.oracle.com/docs/cd/B28359_01/appdev.111/b28424/adfns_profiler.htm

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answered Oct 5, 2009 at 13:22

David Mann
2,000 ● 15 ● 15

1   Update: After using the Hierarchical Profiler a bit this week it is not so useful for code covereage - it mainly collect data on the entry points of each function call and not on all lines of code like the original profiler. – David Mann Apr 12, 2010 at 15:59

See SD Test Coverage Tools. We're about to release a PLSQL test coverage tool with the same capabilities as our other tools, including a GUI to display the results on top of your source code, and a generated coverage report that collects details on individual functions as well as rollups for packages.

EDIT 2/15/2011: PLSQL test coverage production tool is available.

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edited Mar 25, 2011 at 2:52

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There is a package you can install called DBMS_profiler. With this, you can start a profile and Oracle will store data in special tables. Then stop the profile and report from those tables.

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With Oracle 12.2c now you can use **DBMS_PLSQL_CODE_COVERAGE** package. In fact, this provides basic-block level coverage.

Basic-block is the smallest executable code.

These are few references to find more information.

Oracle documentation

Tutorial

Youtube Video

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Buddhika Chathuranga
1,438 ● 2 ● 15 ● 23

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Not sure if this is quite what you're after, but in 10g onwards there's a tool to do static PL/SQL code analysis.

Info here...
http://www.psoug.org/reference/plsql_warnings.html

Note that it can be enabled at either session or database level.

In my experience it's thrown up quite a few false negatives so far.

answered Sep 30, 2008 at 11:35

cagcowboy
30.8k ● 11 ● 74 ● 94

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I found something useful on
http://www.databasejournal.com/features/oracle/article.php/10893_2197231_3 page.

```
select exec.cnt/total.cnt * 100 "Code% coverage"
from  (select count(1) cnt
       from plsql_profiler_data d, plsql_profiler_units
       where d.runid = &&runid
       and u.runid = d.runid
       and u.unit_number = d.unit_number
       and u.unit_name = upper('&&name')
       and u.unit_owner = upper('&&owner')
       ) total,
      (select count(1) cnt
```
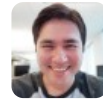
```
        from plsql_profiler_data d, plsql_profiler_units
        where d.runid = &&runid
        and u.runid = d.runid
        and u.unit_number = d.unit_number
        and u.unit_name = upper('&&name')
        and u.unit_owner = upper('&&owner')
        and d.total_occur > 0) exec;
```

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