# oracle 10g 研究ORACLE_HOME rdbms admin 下的脚本的功能（11）awrddrpi.sql

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#Workload Repository Compare Periods Report
#SQL*Plus command file to report on differences between differences
#between values recorded in two pairs of snapshots.
#This script requests the user for the dbid and instance number
#of the instance to report on, for each snapshot pair,
#before producing the standard Workload Repository report.
#生成AWR对比报告


Rem
Rem $Header: awrddrpi.sql 27-may-2005.10:42:24 ysarig Exp $
Rem
Rem awrddrpi.sql
Rem
Rem Copyright (c) 2004, 2005, Oracle. All rights reserved.
Rem
Rem    NAME
Rem      awrddrpi.sql - Workload Repository Compare Periods Report
Rem
Rem    DESCRIPTION
Rem      SQL*Plus command file to report on differences between differences
Rem      between values recorded in two pairs of snapshots.
Rem
Rem      This script requests the user for the dbid and instance number
Rem      of the instance to report on, for each snapshot pair,
Rem      before producing the standard Workload Repository report.
Rem
Rem    NOTES
Rem      Run as SYSDBA.  Generally this script should be invoked by awrddrpt,
Rem      unless you want to pick a database/instance other than the default.
Rem
Rem      If you want to use this script in an non-interactive fashion,
Rem      without executing the script through awrrpt, then
Rem      do something similar to the following:
Rem
Rem      define  inst_num    = 1;
Rem      define  num_days    = 3;
Rem      define  inst_name   = 'Instance';
Rem      define  db_name     = 'Database';
Rem      define  dbid        = 4;
Rem      define  begin_snap  = 10;
Rem      define  end_snap    = 11;
Rem      define  report_type = 'text';
Rem      define  report_name = /tmp/swrf_report_10_11.txt
Rem      @@?/rdbms/admin/awrrpti
Rem
Rem    MODIFIED   (MM/DD/YY)
Rem    ysarig     05/27/05 - Fix comments for compare period report
Rem    pbelknap   08/04/04 - make awr html types bigger
Rem    pbelknap   07/23/04 - change linesize to 240
Rem    mramache   06/17/04 - mramache_diff_diff
Rem    mramache   05/25/04 -
Rem    ilistvin   05/25/04 - created
Rem

```
set echo off;

-- **************************************************
--    Customer-customizable report settings
--    Change these variables to run a report on different statistics
-- **************************************************
-- The default number of days of snapshots to list when displaying the
-- list of snapshots to choose the begin and end snapshot Ids from.
--
--    List all snapshots
-- define num_days = '';
--
--    List no (i.e. 0) snapshots
-- define num_days = 0;
--
-- List past 3 day's snapshots
-- define num_days = 3;
--
-- Reports can be printed in text or html, and you must set the report_type
-- in addition to the report_name
--
-- Issue Report in Text Format
--define report_type='text';
--
-- Issue Report in HTML Format
--define report_type='html';

-- Optionally, set the snapshots for the report.  If you do not set them,
-- you will be prompted for the values.
--define begin_snap = 545;
--define end_snap   = 546;
--define begin_snap2 = 873;
--define end_snap2   = 874;

-- Optionally, set the name for the report itself
--define report_name = 'awrrpt_1_545_546.html'

-- **************************************************
--    End customer-customizable settings
-- **************************************************


-- ****************************************************
--    The report_options variable will be the options for
--    the AWR report.
--
--    Currently, only one option is available.
--
--    NO_OPTIONS -
--       No options. Setting this will not show the ADDM
--       specific portions of the report.
--       This is the default setting.
--
--    ENABLE_ADDM -
--       Show the ADDM specific portions of the report.
--       These sections include the Buffer Pool Advice,
--       Shared Pool Advice, PGA Target Advice, and
```

```
--    Wait Class sections.
--

set veri off;
set feedback off;

variable rpt_options number;

-- option settings
define NO_OPTIONS   = 0;
define ENABLE_ADDM  = 8;

-- set the report_options. To see the ADDM sections,
-- set the rpt_options to the ENABLE_ADDM constant.
begin
  :rpt_options := &NO_OPTIONS;
end;
/


--
-- Find out if we are going to print report to html or to text
prompt
prompt Specify the Report Type
prompt ~~~~~~~~~~~~~~~~~~~~~~~
prompt Would you like an HTML report, or a plain text report?
prompt Enter 'html' for an HTML report, or 'text' for plain text
prompt  Defaults to 'html'

column report_type new_value report_type;
set heading off;
select 'Type Specified: ',lower(nvl('&&report_type','html')) report_type from dual;
set heading on;

set termout off;
-- Set the extension based on the report_type
column ext new_value ext;
select '.html' ext from dual where lower('&&report_type') <> 'text';
select '.txt' ext from dual where lower('&&report_type') = 'text';
set termout on;

-- Get the common input!
-- awrinput will set up the bind variables we need to call the PL/SQL procedure
@@awrddinp.sql 'awrdiff_' &&ext

set termout off;
-- set report function name and line size
column fn_name new_value fn_name noprint;
select 'awr_diff_report_text' fn_name from dual where lower('&report_type') = 'text';
select 'awr_diff_report_html' fn_name from dual where lower('&report_type') <> 'text';

column lnsz new_value lnsz noprint;
select '240' lnsz from dual where lower('&report_type') = 'text';
select '1500' lnsz from dual where lower('&report_type') <> 'text';

set linesize &lnsz;
set termout on;
spool &report_name;
prompt
```

```sql
select 'WARNING: timed_statistics setting changed between begin/end snaps: TIMINGS ARE INVALID'
  from dual
 where not exists
       (select null
          from dba_hist_parameter b
             , dba_hist_parameter e
         where b.snap_id           = :bid
           and e.snap_id           = :eid
           and b.dbid              = :dbid
           and e.dbid              = :dbid
           and b.instance_number = :inst_num
           and e.instance_number = :inst_num
           and b.parameter_hash  = e.parameter_hash
           and b.parameter_name = 'timed_statistics'
           and b.value             = e.value)
    or not exists
       (select null
          from dba_hist_parameter b
             , dba_hist_parameter e
         where b.snap_id           = :bid2
           and e.snap_id           = :eid2
           and b.dbid              = :dbid2
           and e.dbid              = :dbid2
           and b.instance_number = :inst_num2
           and e.instance_number = :inst_num2
           and b.parameter_hash  = e.parameter_hash
           and b.parameter_name = 'timed_statistics'
           and b.value             = e.value);

select output from table(dbms_workload_repository.&fn_name( :dbid,
                                                            :inst_num,
                                                            :bid, :eid,
                                                            :dbid2,
                                                            :inst_num2,
                                                            :bid2, :eid2
                                                           ));

spool off;

prompt Report written to &report_name.

set termout off;
clear columns sql;
ttitle off;
btitle off;
repfooter off;
set linesize 78 termout on feedback 6 heading on;
-- Undefine report name (created in awrinput.sql)
undefine report_name

undefine report_type
undefine ext
undefine fn_name
undefine lnsz

undefine NO_OPTIONS
undefine ENABLE_ADDM
```

```
undefine top_n_events
undefine num_days
undefine top_n_sql
undefine top_pct_sql
undefine sh_mem_threshold
undefine top_n_segstat

whenever sqlerror continue;
--
--  End of script file;
```