

## oracle 10g 研究ORACLE\_HOME rdbms admin 下的脚本的功能 (13) awrextr.sql

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```
#AWR Extract
#SQL/Plus script to help users extract data from the AWR

Rem
Rem $Header: awrextr.sql 06-apr-2005.18:28:53 mlfeng Exp $
Rem
Rem awrextr.sql
Rem
Rem Copyright (c) 2004, 2005, Oracle. All rights reserved.
Rem
Rem      NAME
Rem      awrextr.sql - AWR Extract
Rem
Rem      DESCRIPTION
Rem      SQL/Plus script to help users extract data from the AWR
Rem
Rem      NOTES
Rem      User must be connected as SYS to run this SQL/Plus script.
Rem
Rem      MODIFIED      (MM/DD/YY)
Rem      mlfeng        03/01/05 - Add Disclaimer for support
Rem      mlfeng        06/01/04 - mlfeng_awr_import_export
Rem      mlfeng        05/17/04 - Created
Rem

--      Use local dbid
--      define dbid = '';
--
--      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;
--
--      Optionally, set the snapshots to export.  If you do not set them,
--      you will be prompted for the values.
--      define begin_snap = 0;
--      define end_snap   = 10000000;
--
--      Use the default directory name and file name
--      define directory_name = 'DATA_PUMP_DIR'
--      define file_name      = ''
--

set echo off heading on underline on verify off
set feedback off linesize 80 termout on;

prompt ~~~~~
prompt ~~~~~
prompt Disclaimer: This SQL/Plus script should only be called under
```

```

prompt          the guidance of Oracle Support.
prompt ~~~~~
prompt ~~~~~
prompt
prompt
prompt ~~~~~
prompt AWR EXTRACT
prompt ~~~~~
prompt ~~~~~
prompt ~ This script will extract the AWR data for a range of snapshots ~
prompt ~ into a dump file. The script will prompt users for the ~
prompt ~ following information: ~
prompt ~ (1) database id ~
prompt ~ (2) snapshot range to extract ~
prompt ~ (3) name of directory object ~
prompt ~ (4) name of dump file ~
prompt ~~~~~

--
-- Get the current database information - this will be used as the
-- default for the database ID in the AWR schema to extract from.

set termout off;
column db_name heading "DB Name" format a12;
column db_dbid heading "DB Id" format 9999999999 just c new_value db_dbid;

select d.dbid db_dbid
       , d.name db_name
from v$database d;

set termout on;

column dbb_name heading "DB Name" format a12;
column dbbid heading "DB Id" format a12 just c;
column host heading "Host" format a12;

prompt
prompt
prompt Databases in this Workload Repository schema
prompt ~~~~~
select distinct
       (case when cd.dbid = wr.dbid and
              cd.name = wr.db_name
              then '*'
              else ' '
              end) || wr.dbid dbbid
       , wr.db_name dbb_name
       , wr.host_name host
from dba_hist_database_instance wr, v$database cd
order by dbbid desc;

prompt
prompt The default database id is the local one: '&db_dbid'. To use this
prompt database id, press <return> to continue, otherwise enter an alternative.
prompt

set heading off;
column dbid new_value dbid noprint;

```

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select 'Using ' || nvl('&dbid','&db_dbid') || ' for Database ID'
      , nvl('&dbid','&db_dbid') dbid
from sys.dual;

-- Set up Bind for database ID
variable dbid      number;

begin
    :dbid      := &dbid;
end;
/

--
-- Error reporting

whenever sqlerror exit;
variable max_snap_time char(10);

declare

    cursor cidnum is
        select 'X'
            from dba_hist_database_instance
           where dbid      = :dbid;

    cursor csnapid is
        select to_char(max(end_interval_time),'dd/mm/yyyy')
            from dba_hist_snapshot
           where dbid      = :dbid;

    vx      char(1);

begin

    -- Check Database Id/Instance Number is a valid pair
    open cidnum;
    fetch cidnum into vx;
    if cidnum%notfound then
        raise_application_error(-20200,
            'Database ' || :dbid ||
            ' does not exist in DBA_HIST_DATABASE_INSTANCE');
    end if;
    close cidnum;

    -- Check Snapshots exist for Database Id/Instance Number
    open csnapid;
    fetch csnapid into :max_snap_time;
    if csnapid%notfound then
        raise_application_error(-20200,
            'No snapshots exist for Database ' || :dbid);
    end if;
    close csnapid;

end;
/

```

```

--

-- Ask how many days of snapshots to display

set termout on;
column dbid_fmt noprint;
column db_name      format a12 heading 'DB Name';
column snap_id      format 99999990 heading 'Snap Id';
column snapdat      format a18 heading 'Snap Started' just c;

prompt
prompt
prompt Specify the number of days of snapshots to choose from
prompt ~~~~~
prompt Entering the number of days (n) will result in the most recent
prompt (n) days of snapshots being listed. Pressing <return> without
prompt specifying a number lists all completed snapshots.
prompt
prompt

set heading off;
column num_days new_value num_days noprint;
select    'Listing '
          || decode( nvl('&num_days', 3.14)
                    , 0      , 'no snapshots'
                    , 3.14   , 'all Completed Snapshots'
                    , 1      , 'the last day''s Completed Snapshots'
                    , 'the last &num_days days of Completed Snapshots')
          , nvl('&num_days', 3.14) num_days
from sys.dual;
set heading on;

--

-- List available snapshots

break on db_name;

tttitle off;

select s.dbid                                dbid_fmt
      , max(di.db_name)                      db_name
      , s.snap_id                            snap_id
      , to_char(max(s.end_interval_time), 'dd Mon YYYY HH24:mi') snapdat
from dba_hist_snapshot s
      , dba_hist_database_instance di
where s.dbid                                = :dbid
      and di.dbid                          = s.dbid
      and di.instance_number = s.instance_number
      and di.startup_time    = s.startup_time
      and s.end_interval_time >= decode( &num_days
                                         , 0      , to_date('31-JAN-9999', 'DD-MON-YYYY')
                                         , 3.14, s.end_interval_time
                                         , to_date(:max_snap_time, 'dd/mm/yyyy') -
                                           (&num_days-1))

group by s.dbid, snap_id
order by s.dbid, snap_id;

clear break;

```

[illegible]

```

set heading off;
column directory_name new_value directory_name noprint;
select 'Using the dump directory: ' || nvl('&&directory_name','&dflt_dir')
      , nvl('&&directory_name','&dflt_dir') directory_name
from sys.dual;

```

```

variable dmpdir varchar2(30);
variable dmppath varchar2(4000)

```

```

declare

```

```

    cursor dirpath (dirname varchar2) is
        select directory_path
        from dba_directories
        where directory_name = dirname;

```

```

begin

```

```

    :dmpdir := '&directory_name';

```

```

    /* select the directory path into a variable */

```

```

    open dirpath(:dmpdir);

```

```

    fetch dirpath into :dmppath;

```

```

    if (dirpath%NOTFOUND) then

```

```

        RAISE_APPLICATION_ERROR(-20103,

```

```

            'directory name ''' || :dmpdir ||
            ''' is invalid', TRUE);

```

```

    end if;

```

```

    close dirpath;

```

```

end;

```

```

/

```

```

set termout off;

```

```

column dflt_name new_value dflt_name noprint;

```

```

select 'awrdat'||'_'||:bid||'_'||:eid dflt_name from dual;

```

```

set termout on;

```

```

prompt

```

```

prompt Specify the Name of the Extract Dump File

```

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prompt ~~~~~

```

```

prompt The prefix for the default dump file name is &dflt_name..

```

```

prompt To use this name, press <return> to continue, otherwise enter

```

```

prompt an alternative.

```

```

prompt

```

```

set heading off;

```

```

column file_name new_value file_name noprint;

```

```

select 'Using the dump file prefix: ' || nvl('&&file_name','&dflt_name')
      , nvl('&&file_name','&dflt_name') file_name

```

```

from sys.dual;

```

```

variable dmpfile varchar2(30);

```

```

begin

```



```
        bid      => :bid,  
        eid      => :eid,  
        dbid     => :dbid);  
  
end;  
  
/  
  
undefine dbid  
undefine num_days  
undefine begin_snap  
undefine end_snap  
undefine directory_name  
undefine file_name
```