dbms_stats.gather_fixed_objects_stats

参考 ：

```
exec dbms_stats.gather_fixed_objects_stats;


SQL> desc dbms_stats.gather_fixed_objects_stats
Parameter      Type      Mode Default?
------------- -------- ---- --------
STATTAB        VARCHAR2  IN   Y
STATID         VARCHAR2  IN   Y
STATOWN        VARCHAR2  IN   Y
NO_INVALIDATE  BOOLEAN   IN   Y

SQL>
```

该gather_fixed_objects_stats存储过程收集的X$基表对象如下，一般建议在系统高峰时段收集 例如大量session登陆之后，以保证v$SESSION、V$PROCESS、V$LOCK等常用视图相关的SQL语句执行计划恰当。

```
select table_name,num_rows,last_analyzed from dba_tab_statistics where last_analyzed is not null order by last_analyzed desc


procedure gather_fixed_objects_stats
    (stattab varchar2 default null, statid varchar2 default null,
     statown varchar2 default null,
     no_invalidate boolean default
       to_no_invalidate_type(get_param('NO_INVALIDATE')));
--
-- Gather statistics for fixed tables.
-- To run this procedure, you must have the SYSDBA or ANALYZE ANY DICTIONARY
-- system privilege.
--
-- Input arguments:
--   stattab - The user stat table identifier describing where to save
--      the current statistics.
--   statid - The (optional) identifier to associate with these statistics
--      within stattab.
--   statown - The schema containing stattab (if different then ownname)
--   no_invalidate - Do not invalid the dependent cursors if set to TRUE.
--      The procedure invalidates the dependent cursors immediately
--      if set to FALSE.
--      Use DBMS_STATS.AUTO_INVALIDATE to have oracle decide when to
--      invalidate dependend cursors. This is the default. The default
--      can be changed using set_param procedure.
-- Exceptions:
--   ORA-20000: insufficient privileges
--   ORA-20001: Bad input value
--   ORA-20002: Bad user statistics table, may need to upgrade it
--

  function report_gather_fixed_obj_stats
    (stattab varchar2 default null, statid varchar2 default null,
     statown varchar2 default null,
     no_invalidate boolean default
```

```
          to_no_invalidate_type(get_param('NO_INVALIDATE')),
       detail_level varchar2 default 'TYPICAL',
       format varchar2 default 'TEXT')
   return clob;


  --
  -- This procedure runs gather_fixed_objects_stats in reporting mode. That is,
  -- stats are not actually collected, but all the objects that will be
  -- affected when gather_fixed_objects_stats is invoked are reported.
  -- The detail level for the report is defined by the detail_level
  -- input parameter. Please see the comments for report_single_stats_operation
  -- on possible values for detail_level and format.
  -- For all other input parameters, please see the comments on
  -- gather_fixed_objects_stats.

  procedure delete_fixed_objects_stats(
        stattab varchar2 default null, statid varchar2 default null,
        statown varchar2 default null,
        no_invalidate boolean default
        to_no_invalidate_type(get_param('NO_INVALIDATE')),
        force boolean default FALSE);
  --
  -- Deletes statistics for fixed tables
  -- To run this procedure, you must have the SYSDBA or ANALYZE ANY DICTIONARY
  -- system privilege.
  --
  -- Input arguments:
  --   stattab - The user stat table identifier describing from where
  --       to delete the statistics.  If stattab is null, the statistics
  --       will be deleted directly in the dictionary.
  --   statid - The (optional) identifier to associate with these statistics
  --       within stattab (Only pertinent if stattab is not NULL).
  --   statown - The schema containing stattab (if different then ownname)
  --   no_invalidate - Do not invalide the dependent cursors if set to TRUE.
  --       The procedure invalidates the dependent cursors immediately
  --       if set to FALSE.
  --       Use DBMS_STATS.AUTO_INVALIDATE to have oracle decide when to
  --       invalidate dependend cursors. This is the default. The default
  --       can be changed using set_param procedure.
  --   force - Ignores the statistics lock on objects and delete
  --             the statistics if set to TRUE.
  --
  -- Exceptions:
  --   ORA-20000: insufficient privileges
  --   ORA-20002: Bad user statistics table, may need to upgrade it
  --

  procedure export_fixed_objects_stats(
        stattab varchar2, statid varchar2 default null,
        statown varchar2 default null);
  --
  -- Retrieves statistics for fixed tables and stores them in the user
  -- stat table identified by stattab
  -- To run this procedure, you must have the SYSDBA or ANALYZE ANY DICTIONARY
  -- system privilege.
  --
  -- Input arguments:
  --   stattab - The user stat table identifier describing where
```

```
--      to store the statistics.
--    statid - The (optional) identifier to associate with these statistics
--       within stattab.
--    statown - The schema containing stattab (if different then ownname)
--
-- Exceptions:
--    ORA-20000: insufficient privileges
--    ORA-20002: Bad user statistics table, may need to upgrade it
--


  procedure import_fixed_objects_stats(
        stattab varchar2, statid varchar2 default null,
        statown varchar2 default null,
        no_invalidate boolean default
           to_no_invalidate_type(get_param('NO_INVALIDATE')),
        force boolean default FALSE);
--
-- Retrieves statistics for fixed tables from the user stat table and
-- stores them in the dictionary
-- To run this procedure, you must have the SYSDBA or ANALYZE ANY DICTIONARY
-- system privilege.
-- The statistics will be imported as pending in case PUBLISH preference
-- is set to FALSE.
--
-- Input arguments:
--    stattab - The user stat table identifier describing from where
--       to retrieve the statistics.
--    statid - The (optional) identifier to associate with these statistics
--       within stattab.
--    statown - The schema containing stattab (if different then ownname)
--    no_invalidate - Do not invalide the dependent cursors if set to TRUE.
--       The procedure invalidates the dependent cursors immediately
--       if set to FALSE.
--       Use DBMS_STATS.AUTO_INVALIDATE to have oracle decide when to
--       invalidate dependend cursors. This is the default. The default
--       can be changed using set_param procedure.
--    force - Override statistics lock.
--      TRUE- Ignores the statistics lock on objects and import
--            the statistics.
--      FALSE-The statistics of an object will be imported only if it
--            is not locked.
--
-- Exceptions:
--    ORA-20000: insufficient privileges
--              if ORA-20000 shows "no statistics are imported", several
--              possible reasons are: (1) user specified statid does not
--              exist; (2) statistics are locked; (3) objects in the
--              stattab no longer exist in the current database
--    ORA-20001: Invalid or inconsistent values in the user stat table
--    ORA-20002: Bad user statistics table, may need to upgrade it
```