

Generic oracle query to check block corruption and segment integrity :

prompt

#####

prompt

prompt >>>>> Data Block Integrity Check

prompt No rows selected means 'OK'

prompt

#####

select * from v\$database_block_corruption;

prompt

#####

prompt

prompt >>>>> Undo Segment Integrity Check

prompt No rows selected means 'OK'

prompt

#####

select * from v\$corrupt_xid_list;

----- From Blog -----

spool D:\DB_Monitoring_Performace\CBSPROD.txt

prompt**-----Database General Information-----**

SELECT DBID "DATABASE_ID", NAME "DB_NAME", LOG_MODE, OPEN_MODE, RESETLOGS_TIME FROM V\$DATABASE;

SELECT instance_name, status, to_char(startup_time,'DD-MON-YYYY HH24:MI:SS') "DB Startup Time"

```
FROM sys.v_$instance;

column "Host Name" format a15;

column "Host Address" format a15;

SELECT UTL_INADDR.GET_HOST_ADDRESS "Host Address", UTL_INADDR.GET_HOST_NAME "Host
Name" FROM DUAL;

SELECT BANNER "VERSION" FROM V$VERSION;

col "Database Size" format a15;

col "Free space" format a15;

select round(sum(used.bytes) / 1024 / 1024/1024 ) || ' GB' "Database Size",
round(free.p / 1024 / 1024/1024) || ' GB' "Free space"
from (select bytes from v$datafile
union all select bytes from v$tempfile
union all select bytes from v$log) used,
(select sum(bytes) as p from dba_free_space) free
group by free.p;

prompt**-----Database SGA Component Size-----**

set line 200;

select pool, m_bytes from ( select pool, to_char( trunc(sum(bytes)/1024/1024,2), '99999.99' ) as
M_bytes
from v$sgastat
where pool is not null group by pool
union
select name as pool, to_char( trunc(bytes/1024/1024,3), '99999.99' ) as M_bytes
from v$sgastat
where pool is null order by 2 desc
) UNION ALL
select 'TOTAL' as pool, to_char( trunc(sum(bytes)/1024/1024,3), '99999.99' ) from v$sgastat;
```

prompt**-----DB Characterset Information-----**

```
Select * from nls_database_parameters;

col name format A60 heading "Control Files";

select name from sys.v_$controlfile;

col member format A40 heading "Redolog Files";

set line 200;

col archived format a15;

col status format a10;

col first_time format a20;

select a.group#, a.member, b.archived, b.status, b.first_time from v$log a, v$log b
where a.group# = b.group# order by a.group#;
```

prompt**-----DB Profile and Default Information-----**

```
set line 200;

col username format a25;

col profile format a20;

col default_tablespace format a25;

col temporary_tablespace format a25;

Select username, profile, default_tablespace, temporary_tablespace from dba_users;
```

prompt**-----PGA_AGGREGATE_TARGET-----**

```
set line 200;

select name, cnt, decode(total, 0, 0, round(cnt*100/total)) percentage
from (select name, value cnt, (sum(value) over()) total
from v$sysstat where name like 'workarea exec%')
);
```

Prompt--DBA increase this Parameter when "multipass" value are greater than ZERO and Reduce whenever the optimal executions are 100 percent.

```
select name, value from v$pgastat;
```

```
prompt**-----Users Log on Information-----**
```

```
set line 200;
```

```
col OSUSER format a40;
```

```
col STATUS format a15
```

```
col MACHINE format a35;
```

```
Select to_char(logon_time,'dd/mm/yyyy hh24:mi:ss') "Logon_Time",osuser,status,machine from  
v$session where type !='BACKGROUND';
```

```
prompt**-----Monitoring Schema Growth Rate-----**
```

```
select  obj.owner "Owner", obj_cnt "Objects", decode(seg_size, NULL, 0, seg_size) "Size in MB"  
from (select owner, count(*) obj_cnt from dba_objects group by owner) obj,  
(select owner, ceil(sum(bytes)/1024/1024) seg_size  
  from dba_segments group by owner) seg  
where obj.owner = seg.owner(+)  
order by 3 desc ,2 desc, 1;
```

```
prompt**-----Largest object in Database-----**
```

```
SET LINE 200;
```

```
col SEGMENT_NAME format a30;
```

```
col SEGMENT_TYPE format a30;
```

```
col BYTES format a30;
```

```
col TABLESPACE_NAME FORMAT A30;
```

```
SELECT * FROM (select SEGMENT_NAME, SEGMENT_TYPE, BYTES/1024/1024/1024 GB,  
TABLESPACE_NAME from dba_segments order by 3 desc ) WHERE ROWNUM <= 5;
```

```
prompt**-----Monitoring Most resource usnig SQL statements-----**
```

```
set line 200;
```

```
SELECT * FROM (SELECT Substr(a.sql_text,1,50) sql_text,
```

```
Trunc(a.disk_reads/Decode(a.executions,0,1,a.executions)) reads_per_execution,  
a.buffer_gets, a.disk_reads, a.executions, a.sorts, a.address  
FROM v$sqlarea a  
ORDER BY 2 DESC)  
WHERE rownum <= 5;
```

prompt**-----Monitoring Objects Created within 7 days-----**

```
select count(1) from user_objects where CREATED >= sysdate - 7;
```

prompt**-----Counting Invalid object in Database-----**

```
Select owner, object_type, count(*) from dba_objects where status='INVALID' group by owner,  
object_type;
```

prompt**-----Monitoring Current Running Long Job in DB-----**

```
SELECT SID, SERIAL#, opname, SOFAR, TOTALWORK,  
ROUND(SOFAR/TOTALWORK*100,2) COMPLETE  
FROM V$SESSION_LONGOPS  
WHERE TOTALWORK != 0 AND SOFAR != TOTALWORK order by 1;
```

prompt**-----Monitoring DML Lock-----**

```
set line 200;  
col username format a30;  
col lock_type format a20;  
col osuser format a30;  
col owner format a25;  
col object_name format a50;  
SELECT s.sid, s. serial#, s.username, l.lock_type, s.osuser, s.machine,  
o.owner, o.object_name, ROUND(w.seconds_in_wait/60, 2) "Wait_Time"  
FROM
```

```
v$session s, dba_locks l, dba_objects o, v$session_wait w
WHERE s.sid = l.session_id
AND l.lock_type IN ('DML','DDL')
AND l.lock_id1 = o.object_id
AND l.session_id = w.sid
ORDER BY s.sid;
```

prompt**-----Monitor Non-Sys owned tables in SYSTEM Tablespace-----**

```
SELECT owner, table_name, tablespace_name FROM dba_tables WHERE tablespace_name = 'SYSTEM'
AND owner NOT IN ('SYSTEM', 'SYS', 'OUTLN');
```

prompt**-----Track Redolog Generation-----**

```
select trunc(completion_time) logdate, count(*) logswitch, round((sum(blocks*block_size) / 1024 /
1024)) "REDO PER DAY(MB)"
from v$archived_log
group by trunc(completion_time)
order by 1;
```

prompt**-----Monitor DB Corruption or Need of Recovery-----**

```
set line 200;
SELECT r.FILE# AS df#, d.NAME AS df_name, t.NAME AS tbsp_name, d.STATUS,
r.ERROR, r.CHANGE#, r.TIME FROM V$RECOVER_FILE r, V$DATAFILE d, V$TABLESPACE t
WHERE t.TS# = d.TS# AND d.FILE# = r.FILE#;
```

prompt**-----Tablespace Information-----**

```
col tablespace_name format a15 heading "Tablespace Name"
SELECT Total.name "Tablespace Name",
nvl(Free_space, 0) Free_space,
nvl(total_space-Free_space, 0) Used_space,
```

```
        total_space
FROM
(select tablespace_name, sum(bytes/1024/1024) Free_Space
  from sys.dba_free_space
 group by tablespace_name
) Free,
(select b.name, sum(bytes/1024/1024) TOTAL_SPACE
  from sys.v_$datafile a, sys.v_$tablespace B
 where a.ts# = b.ts#
 group by b.name
) Total
WHERE Free.Tablespace_name(+) = Total.name
ORDER BY Total.name
/
prompt**-----Shows Used/Free Space Per Datafile-----**
```

```
set linesize 200
```

```
col file_name format a50 heading "Datafile Name"
```

```
SELECT SUBSTR (df.NAME, 1, 40) file_name, df.bytes / 1024 / 1024 allocated_mb,
      ((df.bytes / 1024 / 1024) - NVL (SUM (dfs.bytes) / 1024 / 1024, 0))
      used_mb,
      NVL (SUM (dfs.bytes) / 1024 / 1024, 0) free_space_mb
FROM v$datafile df, dba_free_space dfs
WHERE df.file# = dfs.file_id(+)
GROUP BY dfs.file_id, df.NAME, df.file#, df.bytes
ORDER BY file_name;
```

TTI off

```
prompt**-----Report Tablespace < 10% free space-----**

set pagesize 300;

set linesize 100;

column tablespace_name format a15 heading Tablespace;

column sumb format 999,999,999;

column extents format 9999;

column bytes format 999,999,999,999;

column largest format 999,999,999,999;

column Tot_Size format 999,999 Heading "Total Size(Mb)";

column Tot_Free format 999,999,999 heading "Total Free(Kb)";

column Pct_Free format 999.99 heading "% Free";

column Max_Free format 999,999,999 heading "Max Free(Kb)";

column Min_Add format 999,999,999 heading "Min space add (MB)";

select a.tablespace_name,sum(a.tots/1048576) Tot_Size,
sum(a.sumb/1024) Tot_Free, sum(a.sumb)*100/sum(a.tots) Pct_Free,
ceil((((sum(a.tots) * 15) - (sum(a.sumb)*100))/85)/1048576) Min_Add
from (select tablespace_name,0 tots,sum(bytes) sumb
from sys.dba_free_space a
group by tablespace_name
union
select tablespace_name,sum(bytes) tots,0 from
sys.dba_data_files
group by tablespace_name) a
group by a.tablespace_name
having sum(a.sumb)*100/sum(a.tots) < 10
order by pct_free;
```



```
prompt**-----File I/O statistics-----**
```

```
prompt
```

```
set linesize 150
```

```
col name format a50 heading "Datafile Name"
```

```
select name,PHYRDS "Physical Reads",PHYWRTS "Physical Writes",READTIM "Read Time(ms)",WRITETIM  
"Write Time(ms)",AVGIOTIM "Avg Time" from v$filestat, v$datafile where  
v$filestat.file#=v$datafile.file#;
```

```
set feedback on
```

```
prompt
```

```
rem -----
```

```
rem Filename: sga_stat.sql
```

```
rem Purpose: Display database SGA statistics
```

```
rem -----
```

```
prompt Recommendations:
```

```
prompt =====
```

```
prompt* SQL Cache Hit rate ratio should be above 90%, if not then increase the Shared Pool Size.
```

```
prompt* Dict Cache Hit rate ratio should be above 85%, if not then increase the Shared Pool Size.
```

```
prompt* Buffer Cache Hit rate ratio should be above 90%, if not then increase the DB Block Buffer value.
```

```
prompt* Redo Log space requests should be less than 0.5% of redo entries, if not then increase log  
buffer.
```

```
prompt* Redo Log space wait time should be near to 0.
```

```
prompt
```

```
set serveroutput ON
```

```
DECLARE
```

```
libcac number(10,2);
```

```
rowcac number(10,2);
```

```
bufcac number(10,2);
```

```
redlog number(10,2);

redoent number;

redowaittime number;

BEGIN

select value into redlog from v$sysstat where name = 'redo log space requests';

select value into redoent from v$sysstat where name = 'redo entries';

select value into redowaittime from v$sysstat where name = 'redo log space wait time';

select 100*(sum(pins)-sum(reloads))/sum(pins) into libcac from v$librarycache;

select 100*(sum(gets)-sum(getmisses))/sum(gets) into rowcac from v$rowcache;

select 100*(cur.value + con.value - phys.value)/(cur.value + con.value) into bufcac

from v$sysstat cur,v$sysstat con,v$sysstat phys,v$statname ncu,v$statname nco,v$statname nph

where cur.statistic# = ncu.statistic#

      and ncu.name = 'db block gets'

      and con.statistic# = nco.statistic#

      and nco.name = 'consistent gets'

      and phys.statistic# = nph.statistic#

      and nph.name = 'physical reads';

dbms_output.put_line('SGA CACHE STATISTICS');

dbms_output.put_line('*****');

dbms_output.put_line('SQL Cache Hit rate = ' || libcac);

dbms_output.put_line('Dict Cache Hit rate = ' || rowcac);

dbms_output.put_line('Buffer Cache Hit rate = ' || bufcac);

dbms_output.put_line('Redo Log space requests = ' || redlog);

dbms_output.put_line('Redo Entries = ' || redoent);

dbms_output.put_line('Redo log space wait time = ' || redowaittime);

if

libcac < 90 then dbms_output.put_line('*** HINT: Library Cache too low! Increase the Shared Pool

Size.');
```

END IF;

if

rowcac < 85 then dbms_output.put_line('*** HINT: Row Cache too low! Increase the Shared Pool Size.');

END IF;

if

bufcac < 90 then dbms_output.put_line('*** HINT: Buffer Cache too low! Increase the DB Block Buffer value.');

END IF;

if

redlog > 1000000 then dbms_output.put_line('*** HINT: Log Buffer value is rather low!');

END IF;

END;

/

spool off