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set echo off
/* SQL macro
   Computer Applications Group, IE Program, PNW Research Station

   Macro name: lfb_defrag_table_batch.sql
   Purpose: Evaluates storage of table indicated by macro arguments
            and copies it to a new table sized to reduce
            fragmentation. This macro is a slight modification
            modification of macro LFB_DEFRAG_TABLE_INT designed for
            use in batch operations.

            invocation: lfb_defrag_table3 &1 &2 &3 &4

            &1 - owner name for table to be defragmented
            &2 - name of table to be defragmented
            &3 - owner name for defragmented table
            &4 - table name for defragmented table

Programmer      Revision date
L.Bednar        23Apr1996
L.Bednar        04Jun1996
L.Bednar        06Jun1996
L.Bednar        09Jun1996
*/
set verify off pagesize 62 linesize 132 pause off
clear screen
prompt
prompt Program LFB_DEFRAG_TABLE4.SQL: Table copy/defragmentation
prompt
prompt Working on copy/defragmentation of table &1..&2...
prompt New/defragmented table will be named &3..&4 ...
REM Define disk space unit used a building block
set termout off
define unit='50'
col table_name heading table
col exts_allocated heading extents|allocat format 999
col blocks_allocated heading blocks|allocated
col blocks_used heading blocks|used format 999,999
col pct_used heading "%blocks|used" format 999.99
col total_rows heading total|rows format 99,999,999
col rows_per_block heading "rows per|block" format 9,999.9
commit work;
set transaction use rollback segment large_rollback_rs;
drop table &1..lfb_old_table_stats;
create table &1..lfb_old_table_stats as
select upper('&1..&2')          table_name,
       s.extents                exts_allocated,
       s.blocks                 blocks_allocated,
       count(distinct substr(o.rowid,1,8)||
              substr(o.rowid,15,4))  blocks_used,
       count(o.rowid)            total_rows,
       count(o.rowid)/count(distinct substr(o.rowid,1,8)||
              substr(o.rowid,15,4))  rows_per_block
from dba_segments s,
     &1..&2 o
where s.segment_name=upper('&2')
and s.owner=upper('&1') and
     s.segment_name=upper('&2') and
     s.segment_type='TABLE'
group by s.blocks, s.extents;

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set heading off
set heading off linesize 200
spool lfb_create_table.sql
select 'create table &3..&4' ||
      ' pctfree 15 pctused 40 tablespace userdata2_ts ' ||
      ' storage(initial ' ||&unit*ceil(2*blocks_used/&unit)||'K ' ||
      'next ' ||&unit*ceil(0.1*2*blocks_used/&unit)||'K ' ||
      'pctincrease 0) ' ||
      'as select * from &1..&2;'          X
      from &1..lfb_old_table_stats;
spool off
set heading on linesize 132
drop table &3..&4;
start lfb_create_table
commit work;
set termout on
prompt
prompt Storage statistics from old table (&1..&2)
select * from &1..lfb_old_table_stats;
set termout off
drop table &1..lfb_old_table_stats;
commit work;
set termout on
prompt Storage statistics for new table (&3..&4)
select upper('&3..&4')          table_name,
       s.extents                exts_allocated,
       s.blocks                 blocks_allocated,
       count(distinct substr(o.rowid,1,8)||
              substr(o.rowid,15,4))  blocks_used,
       count(o.rowid)           total_rows,
       count(o.rowid)/count(distinct substr(o.rowid,1,8)||
              substr(o.rowid,15,4))  rows_per_block
from dba_segments s,
     &3..&4 o
where s.segment_name=upper('&4')
and s.owner=upper('&3') and
     s.segment_name=upper('&4') and
     s.segment_type='TABLE'
group by s.blocks, s.extents;
prompt Program LFB_DEFRAG_TABLE_BATCH.SQL finished executing
undefine old_owner old_table_name new_owner
set linesize 132

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