1. Determine Current Size of TEMP Tablespace

AS SYSDBA

```
col name for a65
select name, round(bytes/1024/1024) "MB" from v$tempfile;
NAME
                                                         MB
/app/orcl/oradata/ORCL/datafile/o1 mf temp 8x2yxk3r .tmp
                                                       104
select tablespace name,
    round(tablespace size/1024/1024) "TS MB",
     round(allocated space/1024/1024) "AS MB",
     round(free space/1024/1024) "FS MB"
from dba temp free space;
TABLESPACE NAME
                           TS MB AS MB FS MB
                             104
                                   8
TEMP
                                           100
```

2. Prepare Test Environment

AS SYSDBA

```
drop user hajo cascade;

create user hajo identified by hajo;

grant connect to hajo;

grant create table to hajo;

alter user hajo quota unlimited on users;

conn hajo/hajo

AS HAJO

create table table_one (col_one number, col_two varchar2(10));

create table table_two (col_three number, col_four varchar2(10));

insert into table_one values ( 1,  'one');

insert into table_one values ( 2,  'two');

insert into table_two values (10,  'ten');

insert into table_two values (20,  'twenty');
```

insert into table two values (5, 'five');

3. Blow Up the Test Tables

AS HAJO

```
insert into table one (select * from table one);
insert into table one (select * from table one);
insert into table one (select * from table one);
insert into table_one (select * from table one);
insert into table one (select * from table one);
insert into table one (select * from table one);
insert into table one (select * from table one);
insert into table one (select * from table one);
insert into table one (select * from table one);
insert into table one (select * from table one);
insert into table one (select * from table one);
insert into table one (select * from table one);
insert into table one (select * from table one);
insert into table one (select * from table one);
insert into table one (select * from table one);
insert into table_one (select * from table_one);
insert into table one (select * from table one);
insert into table one (select * from table one);
insert into table one (select * from table one);
insert into table one (select * from table one);
insert into table two (select * from table_two);
insert into table two (select * from table two);
insert into table two (select * from table two);
insert into table two (select * from table two);
insert into table two (select * from table two);
insert into table two (select * from table two);
insert into table two (select * from table two);
insert into table two (select * from table two);
insert into table two (select * from table two);
insert into table two (select * from table two);
```

4. Start a Cross Join (Cartesian Product) With "ORDER BY" to Enforce Sort Operations (in Temp Tablespace)

Invoke a second terminal window with a new SQL*Plus session as sysdba!

AS HAJO (in first window)

```
select * from table_one cross join table_two order by 2, 1;
```

AS SYSDBA (in second window)

```
select name, round(bytes/1024/1024) "MB" from v$tempfile;
```

Interrupt the cross join in the first window as soon as the tempfile growed dramatically!

5. Determine Current Size of TEMP Tablespace again

```
col name for a65
select name, round(bytes/1024/1024) "MB" from v$tempfile;

NAME

/app/orcl/oradata/ORCL/datafile/o1_mf_temp_8x2yxk3r_.tmp

1604

select tablespace_name,
    round(tablespace_size/1024/1024) "TS MB",
    round(allocated_space/1024/1024) "AS MB",
    round(free_space/1024/1024) "FS MB"

from dba_temp_free_space;

TABLESPACE_NAME

TS MB AS MB FS MB

TEMP

1604

1556

1600
```

6. Shrink the TEMP Tablespace back to 100 MB and Check the Size again

Close the first window (hajo's connection)!

AS SYSDBA

alter tablespace temp shrink space keep 100m;

Tablespace wurde geändert.

```
col name for a65
select name, round(bytes/1024/1024) "MB" from v$tempfile;

NAME

/app/orcl/oradata/ORCL/datafile/o1_mf_temp_8x2yxk3r_.tmp

select tablespace_name,
    round(tablespace_size/1024/1024) "TS MB",
    round(allocated_space/1024/1024) "AS MB",
    round(free_space/1024/1024) "FS MB"

from dba_temp_free_space;
TABLESPACE_NAME

TEMP

104

4 100
```