

Oracle 10g迁移到11g 多个数据库合并成一个

100.111 --> 100.77

100.130 --> 100.77

环境：

100.77：16核， oracle 11.2.0.4，

100.111：16核， oracle 10.2.0.1， 归档

100.130：2核， oracle 10.2.0.1， 非归档

100.130：

SYS@MYSTEEL>；

```
1* select file_name, tablespace_name from dba_data_files
```

SYS@MYSTEEL> /

FILE_NAME	TABLESPACE_NAME
/export/oradata/MYSTEEL/users01.dbf	USERS
/home/oracle/oradata/MYSTEEL/sysaux01.dbf	SYSAUX
/home/oracle/oradata/MYSTEEL/undotbs01.dbf	UNDOTBS1
/home/oracle/oradata/MYSTEEL/system01.dbf	SYSTEM
/export/oradata/MYSTEEL/example01.dbf	EXAMPLE
/export/oradata/MYSTEEL/users02.dbf	USERS
/export/oradata/MYSTEEL/users03.dbf	USERS
/export/oradata/MYSTEEL/users04.dbf	USERS
/export/oradata/MYSTEEL/users05.dbf	USERS
/export/oradata/MYSTEEL/users06.dbf	USERS
/export/oradata/MYSTEEL/nettest01.dbf	NETTEST

11 rows selected.

可以看出非系统表空间只有USERS和NETTEST

SYS@MYSTEEL> select username, account_status, default_tablespace from dba_users;

USERNAME	ACCOUNT_STATUS	DEFAULT_TABLESPACE
MGMT_VIEW	OPEN	SYSTEM
SYS	OPEN	SYSTEM
SYSTEM	OPEN	SYSTEM
DBSNMP	OPEN	SYSAUX
SYSMAN	OPEN	SYSAUX
MYSTEEL	OPEN	USERS
NETTEST	OPEN	NETTEST
OUTLN	EXPIRED & LOCKED	SYSTEM
MDSYS	EXPIRED & LOCKED	SYSAUX
ORDSYS	EXPIRED & LOCKED	SYSAUX
EXFSYS	EXPIRED & LOCKED	SYSAUX
DMSYS	EXPIRED & LOCKED	SYSAUX
WMSYS	EXPIRED & LOCKED	SYSAUX
CTXSYS	EXPIRED & LOCKED	SYSAUX
ANONYMOUS	EXPIRED & LOCKED	SYSAUX
XDB	EXPIRED & LOCKED	SYSAUX
ORDPLUGINS	EXPIRED & LOCKED	SYSAUX
SI_INFORMTN_SCHEMA	EXPIRED & LOCKED	SYSAUX
OLAPSYS	EXPIRED & LOCKED	SYSAUX
SCOTT	EXPIRED & LOCKED	USERS
TMSYS	EXPIRED & LOCKED	USERS
BI	EXPIRED & LOCKED	USERS
PM	EXPIRED & LOCKED	USERS
MDDATA	EXPIRED & LOCKED	USERS

IX	EXPIRED & LOCKED	USERS
SH	EXPIRED & LOCKED	USERS
DIP	EXPIRED & LOCKED	USERS
OE	EXPIRED & LOCKED	USERS
HR	EXPIRED & LOCKED	USERS

29 rows selected.

可以看出非系统用户只有MYSTEEL, NETTEST

将表空间置为只读

```
alter tablespace users read only;
```

```
alter tablespace nettest read only;
```

设置undo_retention, 避免快照过旧错误 (undo_retention如果过小, 则expdp时可能会报ORA-01555: snapshot too old错)

导出表空间

```
create directory expdp_dir as '/export/oradata/backup/';
```

```
expdp directory=expdp_dir schemas=mysteel logfile=expdp1.log ESTIMATE_ONLY=y
```

```
expdp directory=expdp_dir dumpfile=expdp_mysteel%U.dmp schemas=mysteel logfile=expdp1.log parallel=2
```

```
create tablespace mysteelnet datafile '/oradata/userbehavior/mysteelnet01.dbf' size 10G autoextend on maxsize 30G;
```

```
alter tablespace mysteelnet add datafile '/oradata/userbehavior/mysteelnet02.dbf' size 10G autoextend on maxsize 30G;
```

```
create user mysteelnet identified by asdefg default tablespace mysteelnet quota unlimited on mysteelnet;
```

```
grant connect, resource to mysteelnet;
```

```
grant dba to mysteelnet;
```

```
grant unlimited tablespace to mysteelnet;
```

```
impdp directory=imp_dir dumpfile=expdp_mysteel01.dmp, expdp_mysteel02.dmp logfile=impdp1.log REMAP_SCHEMA=mysteel:MYSTEEL_NET
SQLFILE=impdp1.sql
```

(只生成了sqlfile)

```
impdp directory=imp_dir dumpfile=expdp_mysteel01.dmp, expdp_mysteel02.dmp logfile=impdp2.log REMAP_SCHEMA=mysteel:MYSTEEL_NET
(导入数据, schema写错了)
```

```
SYS@userbehavior> drop user MYSTEEL_NET cascade;
```

```
drop user MYSTEEL_NET cascade
```

*

ERROR at line 1:

ORA-01940: cannot drop a user that is currently connected

```
SYS@userbehavior> host oerr ora 1940
```

01940, 00000, "cannot drop a user that is currently connected"

// *Cause: Attempt was made to drop a user that is currently logged in.

// *Action: Make sure user is logged off, then repeat command.

```
SYS@userbehavior>
```

```
SYS@userbehavior> select sid,serial# from v$session where username='MYSTEEL_NET';
```

```
SID SERIAL#
```

```
-----
451 8915
```

```
SYS@userbehavior> alter system kill session '451,8915';
```

System altered.

```
SYS@userbehavior> drop user MYSTEEL_NET cascade;
```

User dropped.

```
SYS@userbehavior>
```

```
impdp directory=imp_dir dumpfile=expdp_mysteel01.dmp, expdp_mysteel02.dmp logfile=impdp2.log REMAP_SCHEMA=mysteel:MYSTEELNET
忘加parallel参数了
```

```
impdp directory=imp_dir dumpfile=expdp_mysteel01.dmp, expdp_mysteel02.dmp logfile=impdp2.log REMAP_SCHEMA=mysteel:MYSTEELNET
parallel=2
```

```
impdp directory=imp_dir dumpfile=expdp_mysteel01.dmp, expdp_mysteel02.dmp logfile=impdp2.log REMAP_SCHEMA=mysteel:MYSTEELNET
REMAP_TABLESPACE=USERS:MYSTEELNET parallel=16
```

报错 :

ORA-31684: Object type USER:"MYSTEELNET" already exists

解决方法 :

在导入语法中加入 exclude=user 忽略用户对象已经存在的错误，如下示：

```
impdp directory=imp_dir dumpfile=expdp_mysteel01.dmp,expdp_mysteel02.dmp logfile=impdp2.log REMAP_SCHEMA=mysteel:MYSTEELNET
REMAP_TABLESPACE=USERS:MYSTEELNET parallel=16 exclude=user
```

ESTIMATE_ONLY

在导出或导入过程中执行 Ctrl + C : 进入Export 或Import命令行

status

预估expdp将花费多少时间：

```
time expdp frank/frank directory=abc dumpfile=abc.dmp parallel=3
```

创建表空间报错：

```
SYS@userbehavior> create tablespace mysteelnet datafile '/oradata/userbehavior/mysteelnet01.dbf' size 10G autoextend on maxsize 32G;
```

```
create tablespace mysteelnet datafile '/oradata/userbehavior/mysteelnet01.dbf' size 10G autoextend on maxsize 32G
```

*

ERROR at line 1:

```
ORA-03206: maximum file size of (4194304) blocks in AUTOEXTEND clause is out of range
```

SYS@userbehavior>

```
[oracle@ibm-userbehavior-db01 userbehavior]$ oerr ora 03206
```

```
03206, 00000, "maximum file size of (%s) blocks in AUTOEXTEND clause is out of range"
```

```
// *Cause: The maximum file size for an autoextendable file has
```

```
// exceeded the maximum number of blocks allowed.
```

```
// *Action: Reduce the size and retry.
```

解决方法：

将32G改为30G即可

expdp报错：

```
. . exported "MYSTEEL"."RES_SUPPLYMESSAGEREPLY" 0 KB 0 rows
```

```
ORA-31693: Table data object "MYSTEEL"."CMS_ARTICLE_TEXT" failed to load/unload and is being skipped due to error:
```

```
ORA-02354: error in exporting/importing data
```

```
ORA-01555: snapshot too old: rollback segment number 2 with name "_SYSSMU2$" too small
```

```
Master table "SYS"."SYS_EXPORT_SCHEMA_02" successfully loaded/unloaded
```

原因分析：该表含大对象列

```
SYS@MYSTEEL> desc mysteel.CMS_ARTICLE_TEXT
```

Name	Null?	Type
LTEXTSID	NOT NULL	NUMBER(19)
LARTICLEID		NUMBER(19)
STEXT		CLOB

SYS@MYSTEEL>

查看表空间使用情况：

```
select sum(bytes)/(1024*1024) as free_space,tablespace_name
from dba_free_space
group by tablespace_name;
```

desc v\$rollstat

desc v\$undostat

解决方法：

```
ALTER TABLE mysteel.CMS_ARTICLE_TEXT MODIFY LOB (STEXT) (PCTVERSION 10);
```

```
ALTER TABLE mysteel.CMS_ARTICLE_TEXT MODIFY LOB (STEXT) (retention);
```

```
select retention, pctversion from dba_lobs where table_name='CMS_ARTICLE_TEXT';
```

参考：<https://gaganvirkz.blogspot.jp/2016/08/datapump-export-failed-with-ora-01555.html>

```
RMAN> backup tablespace users format '/export/oradata/backup/users.%U' ;
```

```
Starting backup at 25-JUL-17
```

```
using channel ORA_DISK_1
```

```
using channel ORA_DISK_2
```

```
using channel ORA_DISK_3
```

```
channel ORA_DISK_1: starting full datafile backupset
```

```
channel ORA_DISK_1: specifying datafile(s) in backupset
```

```
RMAN-03009: failure of backup command on ORA_DISK_1 channel at 07/25/2017 17:19:23
```

```
ORA-19602: cannot backup or copy active file in NOARCHIVELOG mode
```

```
continuing other job steps, job failed will not be re-run
```

```
channel ORA_DISK_2: starting full datafile backupset
```

```
channel ORA_DISK_2: specifying datafile(s) in backupset
```

```
RMAN-03009: failure of backup command on ORA_DISK_2 channel at 07/25/2017 17:19:23
```

```
ORA-19602: cannot backup or copy active file in NOARCHIVELOG mode
```

```
continuing other job steps, job failed will not be re-run
```

```
channel ORA_DISK_3: starting full datafile backupset
```

```
channel ORA_DISK_3: specifying datafile(s) in backupset
```

```
RMAN-00571: =====
```

```
RMAN-00569: ===== ERROR MESSAGE STACK FOLLOWS =====
```

```
RMAN-00571: =====
```

```
RMAN-03009: failure of backup command on ORA_DISK_3 channel at 07/25/2017 17:19:23
```

```
ORA-19602: cannot backup or copy active file in NOARCHIVELOG mode
```

```
RMAN>
```