

## Quản lý Tablespace, Datafile

### 1. Mục tiêu

- Tạo và quản lý Tablespace.

### 2. Thực hiện

- **Set các biến môi trường**

```
export ORACLE_SID=orcl
export ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1
export PATH=$PATH:$ORACLE_HOME/bin
```

- **Kiểm tra dung lượng của các Tablespace**

```
SELECT /* + RULE */ df.tablespace_name "Tablespace",
       df.bytes / (1024 * 1024) "Size (MB)",
       SUM(fs.bytes) / (1024 * 1024) "Free (MB)",
       Nvl(Round(SUM(fs.bytes) * 100 / df.bytes),1) "% Free",
       Round((df.bytes - SUM(fs.bytes)) * 100 / df.bytes) "% Used"
FROM   dba_free_space fs,
       (SELECT tablespace_name,SUM(bytes) bytes
        FROM   dba_data_files
        GROUP BY tablespace_name) df
WHERE  fs.tablespace_name (+) = df.tablespace_name
--and fs.tablespace_name like 'LOG2012%'
GROUP BY df.tablespace_name,df.bytes
UNION ALL
SELECT /* + RULE */ df.tablespace_name tspace,
       fs.bytes / (1024 * 1024),
       SUM(df.bytes_free) / (1024 * 1024),
       Nvl(Round((SUM(fs.bytes) - df.bytes_used) * 100 / fs.bytes),
1),
       Round((SUM(fs.bytes) - df.bytes_free) * 100 / fs.bytes)
FROM   dba_temp_files fs,
       (SELECT tablespace_name,bytes_free,bytes_used
        FROM   v$temp_space_header
        GROUP BY tablespace_name,bytes_free,bytes_used) df
WHERE  fs.tablespace_name (+) = df.tablespace_name
GROUP BY df.tablespace_name,fs.bytes,df.bytes_free,df.bytes_used
ORDER BY 4 DESC;
```

Tablespace	Size (MB)	Free (MB)	% Free	% Used
USERS	5	3.6875	74	26
UNDOTBS1	100	71.4375	71	29

SYSAUX	520	29.75	6	94
SYSTEM	680	7.375	1	99
TEMP	29	0	0	100

#### - Tạo các tablespace

```
SQL> create tablespace DATA_TBS datafile '+DATA' size 100M
autoextend on next 10M MAXSIZE 1G;
```

```
SQL> create tablespace INDX_TBS datafile '+DATA' size 100M
autoextend on next 10M;
```

#### - Kiểm tra dung lượng của các ASM Diskgroup

```
SQL> select name,total_mb,free_mb from v$asm_diskgroup;
```

NAME	TOTAL_MB	FREE_MB
DATA	49134	47562
FRA	24567	24335

#### - Resize cho datafile

```
col FILE_NAME format a50
col TABLESPACE_NAME format 15
col TABLESPACE_NAME format a15;
select tablespace_name,file_name from dba_data_files;
```

TABLESPACE_NAME	FILE_NAME
USERS	+DATA/orcl/datafile/users.259.851600847
UNDOTBS1	+DATA/orcl/datafile/undotbs1.258.851600847
SYSAUX	+DATA/orcl/datafile/sysaux.257.851600847
SYSTEM	+DATA/orcl/datafile/system.256.851600847
DATA_TBS	+DATA/orcl/datafile/data_tbs.266.851782949
INDX_TBS	+DATA/orcl/datafile/indx_tbs.267.851783011

```
SQL> alter database datafile
'+DATA/orcl/datafile/data_tbs.266.851782949' resize 1G;
```

#### - Thêm datafile vào tablespace

```
alter tablespace DATA_TBS add datafile '+DATA' size 1G;
```

#### - Offline tablespace

```
ALTER TABLESPACE INDX_TBS OFFLINE;
```

#### - Online tablespace

```
ALTER TABLESPACE INDX_TBS ONLINE;
```

- **Drop tablespace**

```
drop tablespace DATA_TBS including contents and datafiles;  
drop tablespace INDX_TBS including contents and datafiles;
```

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