

MANAGING TABLESPACES and DATA FILES

(Cap. 8)

1) Crearea unui tablespace permanent 'UBD' cu un fisier de date UBD1 cu dimensiunea de 1 M, cu sau fara extensie :

a) cu specificarea tipului si dimensiunea extensiei

```
SQL> CREATE TABLESPACE userdata DATAFILE 'E:/Student /userdata01.dbf' SIZE 1M  
EXTENT MANAGEMENT LOCAL UNIFORM SIZE 128K;
```

b) fara specificarea extensiei (implicit AUTOALLOCATE)

```
SQL >CREATE TABLESPACE ubd  
DATAFILE 'E:/Student/ubd1.dbf' SIZE 1M;
```

2) Extinderea spatiului alocat unui tablespace

a) extinderea spatiului cu autoextensie

```
SQL> ALTER DATABASE  
DATAFILE 'E:/Student/ubd1.dbf'  
AUTOEXTEND ON NEXT 2M;
```

c) extinderea spatiului cu marime fixa

```
SQL> ALTER DATABASE  
DATAFILE 'E:/Student/ubd1.dbf' RESIZE 2M;
```

3) Adaugarea unui nou fisier de date la un tablespace

```
SQL> ALTER TABLESPACE bd_data  
ADD DATAFILE 'E:/Student/ubd1.dbf'  
SIZE 1M;
```

4) Informatii despre tablespace-uri (la nivel de baza de date)

```
SQL> desc DBA_TABLESPACES
```

Name	Null?	Type
TABLESPACE_NAME	NOT NULL	VARCHAR2(30)
BLOCK_SIZE	NOT NULL	NUMBER
INITIAL_EXTENT		NUMBER
NEXT_EXTENT		NUMBER
MIN_EXTENTS	NOT NULL	NUMBER
MAX_EXTENTS		NUMBER
PCT_INCREASE		NUMBER
MIN_EXTLEN		NUMBER
STATUS		VARCHAR2(9)
CONTENTS		VARCHAR2(9)
LOGGING		VARCHAR2(9)
FORCE_LOGGING		VARCHAR2(3)
EXTENT_MANAGEMENT		VARCHAR2(10)
ALLOCATION_TYPE		VARCHAR2(9)
PLUGGED_IN		VARCHAR2(3)
SEGMENT_SPACE_MANAGEMENT		VARCHAR2(6)

```
SQL> select tablespace_name,block_size,status from DBA_TABLESPACES;
```

TABLESPACE_NAME	BLOCK_SIZE	STATUS
SYSTEM	8192	ONLINE
UNDOTBS1	8192	ONLINE
TEMP	8192	ONLINE
CWMLITE	8192	ONLINE
DRSYS	8192	ONLINE
EXAMPLE	8192	ONLINE
INDX	8192	ONLINE
ODM	8192	ONLINE
TOOLS	8192	ONLINE
USERS	8192	ONLINE
XDB	8192	ONLINE
BD_DATA	8192	ONLINE
BD_TEMP	8192	ONLINE

5) Starea unui tablespace (existent sau sters din baza de date)

SQL> desc V\$TABLESPACE

Name	Null?	Type
TS#		NUMBER
NAME		VARCHAR2(30)
INCLUDED_IN_DATABASE_BACKUP		VARCHAR2(3)

SQL> select * from V\$TABLESPACE;

TS# NAME	INC
3 CWMLITE	YES
4 DRSYS	YES
5 EXAMPLE	YES
6 INDX	YES
7 ODM	YES
0 SYSTEM	YES
8 TOOLS	YES
1 UNDOTBS1	YES
9 USERS	YES
10 XDB	YES
2 TEMP	YES
12 BD_DATA	YES
13 BD_TEMP	YES

6) Informatii despre tablespace-uri si fiserele de date aferente (la nivelul bazei de date)

SQL> desc DBA_DATA_FILES;

Name
FILE_NAME
FILE_ID
TABLESPACE_NAME

BYTES
BLOCKS
STATUS
RELATIVE_FNO
AUTOEXTENSIBLE
MAXBYTES
MAXBLOCKS
INCREMENT_BY
USER_BYTES
USER_BLOCKS

SQL> select tablespace_name,file_name,status from DBA_DATA_FILES

TABLESPACE_NAME

FILE_NAME

STATUS

SYSTEM

C:\ORACLE\ORADATA\BD\SYSTEM01.DBF
AVAILABLE

UNDOTBS1

C:\ORACLE\ORADATA\BD\UNDOTBS01.DBF
AVAILABLE

CWMLITE

C:\ORACLE\ORADATA\BD\CWMLITE01.DBF
AVAILABLE

DRSYS

C:\ORACLE\ORADATA\BD\DRSYS01.DBF
AVAILABLE

EXAMPLE

C:\ORACLE\ORADATA\BD\EXAMPLE01.DBF
AVAILABLE

INDX

C:\ORACLE\ORADATA\BD\INDX01.DBF
AVAILABLE

ODM

C:\ORACLE\ORADATA\BD\ODM01.DBF
AVAILABLE

TOOLS

C:\ORACLE\ORADATA\BD\TOOLS01.DBF
AVAILABLE

USERS

C:\ORACLE\ORADATA\BD\USERS01.DBF

AVAILABLE

XDB

C:\ORACLE\ORADATA\BD\XDB01.DBF

AVAILABLE

BD_DATA

C:\ORACLE\ORADATA\BD\BD_DATA.ORA

AVAILABLE

7) Informatii despre fisierele de date (la nivel de baza de date)

SQL> desc V\$DATAFILE

Name	Null?	Type
FILE#		NUMBER
CREATION_CHANGE#		NUMBER
CREATION_TIME		DATE
TS#		NUMBER
RFILE#		NUMBER
STATUS		VARCHAR2(7)
ENABLED		VARCHAR2(10)
CHECKPOINT_CHANGE#		NUMBER
CHECKPOINT_TIME		DATE
UNRECOVERABLE_CHANGE#		NUMBER
UNRECOVERABLE_TIME		DATE
LAST_CHANGE#		NUMBER
LAST_TIME		DATE
OFFLINE_CHANGE#		NUMBER
ONLINE_CHANGE#		NUMBER
ONLINE_TIME		DATE
BYTES		NUMBER
BLOCKS		NUMBER
CREATE_BYTES		NUMBER
BLOCK_SIZE		NUMBER
NAME		VARCHAR2(513)
PLUGGED_IN		NUMBER
BLOCK1_OFFSET		NUMBER
AUX_NAME		VARCHAR2(513)

SQL> select file#,name,creation_time,status,enabled from V\$DATAFILE;

FILE#	NAME	CREATION_	STATUS	ENABLED
1	C:\ORACLE\ORADATA\BD\SYSTEM01.DBF	12-MAY-02	SYSTEM	READ WRITE

C:\ORACLE\ORADATA\BD\UNDOTBS01.DBF
12-MAY-02 ONLINE READ WRITE

3
C:\ORACLE\ORADATA\BD\CWMLITE01.DBF
12-MAY-02 ONLINE READ WRITE

4
C:\ORACLE\ORADATA\BD\DRSYS01.DBF
12-MAY-02 ONLINE READ WRITE

5
C:\ORACLE\ORADATA\BD\EXAMPLE01.DBF
12-MAY-02 ONLINE READ WRITE

6
C:\ORACLE\ORADATA\BD\INDX01.DBF
12-MAY-02 ONLINE READ WRITE

7
C:\ORACLE\ORADATA\BD\ODM01.DBF
12-MAY-02 ONLINE READ WRITE

8
C:\ORACLE\ORADATA\BD\TOOLS01.DBF
12-MAY-02 ONLINE READ WRITE

9
C:\ORACLE\ORADATA\BD\USERS01.DBF
12-MAY-02 ONLINE READ WRITE

10
C:\ORACLE\ORADATA\BD\XDB01.DBF
12-MAY-02 ONLINE READ WRITE

11
C:\ORACLE\ORADATA\BD\BD_DATA.ORA
08-OCT-08 ONLINE READ WRITE

8) Informatii despre fisierele de date temporare la nivel de baza de date

SQL> desc DBA_TEMP_FILES

Name	Null?	Type
FILE_NAME		VARCHAR2(513)
FILE_ID		NUMBER
TABLESPACE_NAME		NOT NULL VARCHAR2(30)
BYTES		NUMBER
BLOCKS		NUMBER
STATUS		CHAR(9)
RELATIVE_FNO		NUMBER
AUTOEXTENSIBLE		VARCHAR2(3)
MAXBYTES		NUMBER

MAXBLOCKS	NUMBER
INCREMENT_BY	NUMBER
USER_BYTES	NUMBER
USER_BLOCKS	NUMBER

SQL> select file_name,tablespace_name, status from DBA_TEMP_FILES;

FILE_NAME

TABLESPACE_NAME STATUS

C:\ORACLE\ORADATA\BD\TEMP01.DBF
TEMP AVAILABLE

C:\ORACLE\ORADATA\BD\BD_TEMP.ORA
BD_TEMP AVAILABLE

9) Informatii despre fisierele temporare la nivel de user

SQL> desc V\$TEMPFILE

Name	Null?	Type
-----	-----	-----
FILE#		NUMBER
CREATION_CHANGE#		NUMBER
CREATION_TIME		DATE
TS#		NUMBER
RFILE#		NUMBER
STATUS		VARCHAR2(7)
ENABLED		VARCHAR2(10)
BYTES		NUMBER
BLOCKS		NUMBER
CREATE_BYTES		NUMBER
BLOCK_SIZE		NUMBER
NAME		VARCHAR2(513)

SQL> select file#,name, creation_time, status from V\$TEMPFILE;

FILE#	NAME	CREATION_	STATUS
-----	-----	-----	-----
1	F:\ORA10G_DB\PRODUCT\10.2.0\OR ADATA\UPB\TEMP01.DBF	13-FEB-11	ONLINE
2	F:\ORA10G_DB\PRODUCT\10.2.0\OR ADATA\UPB\BD_TEMP	05-NOV-11	ONLINE
3	F:\ORA10G_DB\PRODUCT\10.2.0\DB _1\DATABASE\BD_REPOS_TEMP	25-FEB-12	ONLINE

10) Informatii despre parametrii bazei de date

SQL> desc DATABASE_PROPERTIES;

Name	Null?	Type
PROPERTY_NAME	NOT NULL	VARCHAR2(30)
PROPERTY_VALUE		VARCHAR2(4000)
DESCRIPTION		VARCHAR2(4000)

SQL> select * from DATABASE_PROPERTIES;

PROPERTY_NAME	PROPERTY_VALUE	DESCRIPTION
DICT.BASE	2	dictionary base tables version #
DEFAULT_TEMP_TABLESPACE	TEMP	Name of default temporary tablespace
DEFAULT_PERMANENT_TABLESPACE	USERS	Name of default permanent tablespace
DEFAULT_TBS_TYPE	SMALLFILE	Default tablespace type
NLS_LANGUAGE	AMERICAN	Language
NLS_TERRITORY	AMERICA	Territory
NLS_CURRENCY	\$	Local currency
NLS_ISO_CURRENCY	AMERICA	ISO currency
NLS_CHARACTERSET	WE8MSWIN1252	Character set
NLS_CALENDAR	GREGORIAN	Calendar system
NLS_DATE_FORMAT	DD-MON-RR	Date format
NLS_NCHAR_CHARACTERSET	AL16UTF16	NCHAR Character set
NLS_RDBMS_VERSION	10.2.0.3.0	RDBMS version for NLS parameters
GLOBAL_DB_NAME	UPB.REGRESS.RDBMS.DEV.US.ORACLE.COM	Global database name

11) Stergerea din dictionar a unui tablespace

SQL> DROP TABLESPACE userdata
INCLUDING CONTENTS AND DATAFILES;