

## MANAGING TABLESPACES and DATA FILES

(Capitol 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) 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

3) 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

4) 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

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

SQL> desc V\$DATAFILE

Name	Null?	Type
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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
2	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

6) 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

7) 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	C:\ORACLE\ORADATA\BD\TEMP01.DBF		ONLINE
2	C:\ORACLE\ORADATA\BD\BD_TEMP.ORA		ONLINE