

## Tablespace-uri si fisiere de date

(Cap. 8)

1) Crearea unui tablespace permanent cu un fisier de date asignat de 1 Mb, cu sau fara extensie :

a) cu specificarea tipului si dimensiunea extensiei:

```
SQL> create tablespace ubd_data1 datafile 'e:/temp/ubd_data1.dbf' size 10m
      extent management local uniform size 128k;
Tablespace created.
```

b) fara specificarea extensiei ( implicit AUTOALLOCATE ):

```
SQL >create tablespace ubd_data2
      datafile 'e:/temp/ubd_data2.dbf' size 10M;
Tablespace created.
```

2) Extinderea spatiului alocat unui tablespace:

a) extinderea spatiului prin autoextensie:

```
SQL> alter database datafile 'e:/temp/ubd_data1.dbf'
      autoextend on next 2M;
Database altered.
```

b) extinderea spatiului cu marime fixa:

```
SQL> alter database datafile 'e:/temp/ubd_data1.dbf' resize 5M;
Database altered.
```

3) Adaugarea unui nou fisier de date la un tablespace:

```
SQL> alter tablespace ubd_data1
      add datafile 'e:/temp/ubd_data11.dbf' size 10M;
Tablespace altered.
```

4) Informatii despre tablespace-uri create pe 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
MAX_SIZE		NUMBER
PCT_INCREASE		NUMBER
MIN_EXTLEN		NUMBER
STATUS		VARCHAR2(9)
CONTENTS		VARCHAR2(9)

LOGGING  
 FORCE\_LOGGING  
 EXTENT\_MANAGEMENT  
 ALLOCATION\_TYPE  
 PLUGGED\_IN  
 SEGMENT\_SPACE\_MANAGEMENT  
 DEF\_TAB\_COMPRESSION  
 RETENTION  
 BIGFILE  
 PREDICATE\_EVALUATION  
 ENCRYPTED  
 COMPRESS\_FOR  
 DEF\_INMEMORY  
 DEF\_INMEMORY\_PRIORITY  
 DEF\_INMEMORY\_DISTRIBUTE  
 DEF\_INMEMORY\_COMPRESSION  
 DEF\_INMEMORY\_DUPLICATE

VARCHAR2(9)  
 VARCHAR2(3)  
 VARCHAR2(10)  
 VARCHAR2(9)  
 VARCHAR2(3)  
 VARCHAR2(6)  
 VARCHAR2(8)  
 VARCHAR2(11)  
 VARCHAR2(3)  
 VARCHAR2(7)  
 VARCHAR2(3)  
 VARCHAR2(30)  
 VARCHAR2(8)  
 VARCHAR2(8)  
 VARCHAR2(15)  
 VARCHAR2(17)  
 VARCHAR2(13)

The screenshot shows the Oracle Database Reference page for `DBA_TABLESPACES`. The page title is "DBA\_TABLESPACES" and the URL is <https://docs.oracle.com/database/121/REFRN/GUID-B28A7D79-24E3-49B5-B948-7C2277CB1F88.htm#REFRN23287>. The page content includes a description of the view, a "Related View" section, and a table of columns.

**DBA\_TABLESPACES** describes all tablespaces in the database.

**Related View**

`USER_TABLESPACES` describes the tablespaces accessible to the current user. This view does not display the `PLUGGED_IN` column.

Column	Datatype	NULL	Description
<code>TABLESPACE_NAME</code>	<code>VARCHAR2 (30)</code>	NOT NULL	Name of the tablespace
<code>BLOCK_SIZE</code>	<code>NUMBER</code>	NOT NULL	Tablespace block size (in bytes)
<code>INITIAL_EXTENT</code>	<code>NUMBER</code>		Default initial extent size (in bytes)
<code>NEXT_EXTENT</code>	<code>NUMBER</code>		Default incremental extent size (in bytes)
<code>MIN_EXTENTS</code>	<code>NUMBER</code>	NOT NULL	Default minimum number of extents
<code>MAX_EXTENTS</code>	<code>NUMBER</code>		Default maximum number of extents
<code>MAX_SIZE</code>	<code>NUMBER</code>		Default maximum size of segments (in Oracle blocks)
<code>PCT_INCREASE</code>	<code>NUMBER</code>		Default percent increase for extent size
<code>MIN_EXTLEN</code>	<code>NUMBER</code>		Minimum extent size for this tablespace (in bytes)

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The screenshot displays the Oracle Database Reference documentation for the `DBA_TABLESPACES` view. The left sidebar shows the table of contents, and the main content area lists several parameters with their descriptions and possible values.

Parameter	Data Type	Description	Possible Values
<code>COMPRESS_FOR</code>	<code>VARCHAR2(30)</code>	Default compression for what kind of operations:	<ul style="list-style-type: none"> <li>BASIC</li> <li>ADVANCED</li> <li>QUERY LOW</li> <li>QUERY HIGH</li> <li>ARCHIVE LOW</li> <li>ARCHIVE HIGH</li> <li>NULL</li> </ul>
<code>DEF_INMEMORY</code>	<code>VARCHAR2(8)</code>	Indicates whether the In-Memory Column Store (IM column store) is by default enabled (ENABLED) or disabled (DISABLED) for tables in this tablespace	<ul style="list-style-type: none"> <li>LOW</li> <li>MEDIUM</li> <li>HIGH</li> <li>CRITICAL</li> <li>NONE</li> <li>NULL</li> </ul>
<code>DEF_INMEMORY_PRIORITY</code>	<code>VARCHAR2(8)</code>	Indicates the default priority for In-Memory Column Store (IM column store) population for this tablespace. Possible values:	<ul style="list-style-type: none"> <li>LOW</li> <li>MEDIUM</li> <li>HIGH</li> <li>CRITICAL</li> <li>NONE</li> <li>NULL</li> </ul>
<code>DEF_INMEMORY_DISTRIBUTE</code>	<code>VARCHAR2(15)</code>	Indicates how the IM column store is distributed by default for this tablespace in an Oracle Real Application Clusters (Oracle RAC) environment:	<ul style="list-style-type: none"> <li>AUTO</li> <li>BY ROWID RANGE</li> <li>BY PARTITION</li> <li>BY SUBPARTITION</li> </ul>
<code>DEF_INMEMORY_COMPRESSION</code>	<code>VARCHAR2(17)</code>	Indicates the default compression level for the IM column store for this tablespace:	<ul style="list-style-type: none"> <li>NO MEMCOMPRESS</li> <li>FOR DML</li> <li>FOR QUERY [ LOW   HIGH ]</li> <li>FOR CAPACITY [ LOW   HIGH ]</li> <li>NULL</li> </ul>
<code>DEF_INMEMORY_DUPLICATE</code>	<code>VARCHAR2(13)</code>	Indicates the duplicate setting for the IM column store in an Oracle RAC environment:	<ul style="list-style-type: none"> <li>NO DUPLICATE</li> <li>DUPLICATE</li> <li>DUPLICATE ALL</li> </ul>

SQL> select tablespace\_name, block\_size,status from dba\_tablespaces;

TABLESPACE_NAME	BLOCK_SIZE	STATUS
SYSTEM	8192	ONLINE
SYSAUX	8192	ONLINE
UNDOTBS1	8192	ONLINE
TEMP	8192	ONLINE

USERS	8192	ONLINE
EXAMPLE	8192	ONLINE
BI_IAS_OPSS	8192	ONLINE
BI_IAS_TEMP	8192	ONLINE
BI_IAS_UMS	8192	ONLINE
BI_MDS	8192	ONLINE
BI_IAU	8192	ONLINE
BI_BIPLATFORM	8192	ONLINE
BI_WLS	8192	ONLINE
BI_STB	8192	ONLINE
UBD_TEMP	8192	ONLINE
BD_UNDO	8192	ONLINE
BD_DATA	8192	ONLINE
BD_TEMP	8192	ONLINE

1) Informatii despre tablespace-uri create pe baza de date(preluata din view):

SQL> desc v\$tablespace

Name	Null?	Type
-----	-----	-----
TS#		NUMBER
NAME		VARCHAR2(30)
INCLUDED_IN_DATABASE_BACKUP		VARCHAR2(3)
BIGFILE		VARCHAR2(3)
FLASHBACK_ON		VARCHAR2(3)
ENCRYPT_IN_BACKUP		VARCHAR2(3)
CON_ID		NUMBER

V\$tablespace displays tablespace information from the control file.

Column	Datatype	Description
TS#	NUMBER	Tablespace number
NAME	VARCHAR2 (30)	Tablespace name
INCLUDED_IN_DATABASE_BACKUP	VARCHAR2 (3)	Indicates whether the tablespace is included in full database backups using the BACKUP DATABASE RMAN command (YES) or not (NO); NO only if the CONFIGURE EXCLUDE RMAN command was used for this tablespace
BIGFILE	VARCHAR2 (3)	Indicates whether the tablespace is a bigfile tablespace (YES) or a smallfile tablespace (NO)
FLASHBACK_ON	VARCHAR2 (3)	Indicates whether the tablespace participates in FLASHBACK DATABASE operations (YES) or not (NO)
ENCRYPT_IN_BACKUP	VARCHAR2 (3)	Indicates whether encryption is turned ON or off at the tablespace level. <ul style="list-style-type: none"> <li>ON - Encryption is turned ON at the tablespace level</li> <li>OFF - Encryption is turned OFF at the tablespace level</li> <li>NULL - Encryption is neither explicitly turned on nor off at the tablespace level (default or when cleared)</li> </ul>

SQL> select \* from v\$tablespace;

TS# NAME	INC	BIG	FLA	ENC	CON_ID
-----	---	---	---	---	-----
1 SYSAUX	YES	NO	YES		0
0 SYSTEM	YES	NO	YES		0
2 UNDOTBS1	YES	NO	YES		0
4 USERS	YES	NO	YES		0
3 TEMP	NO	NO	YES		0
5 EXAMPLE	YES	NO	YES		0
6 BI_IAS_OPSS	YES	NO	YES		0
7 BI_IAS_TEMP	NO	NO	YES		0
8 BI_IAS_UMS	YES	NO	YES		0
9 BI_MDS	YES	NO	YES		0
10 BI_IAU	YES	NO	YES		0
11 BI_BIPLATFORM	YES	NO	YES		0
12 BI_WLS	YES	NO	YES		0
13 BI_STB	YES	NO	YES		0
20 BD_UNDO	YES	NO	YES		0
19 UBD_TEMP	NO	NO	YES		0
21 BD_DATA	YES	NO	YES		0
22 BD_TEMP	NO	NO	YES		0

2) Informatii despre tablespace-uri si fiserele de date asignate (la nivelul bazei de date):

SQL> desc dba\_data\_files;

Name	Null?	Type
-----	-----	-----
FILE_NAME		VARCHAR2(513)
FILE_ID		NUMBER
TABLESPACE_NAME		VARCHAR2(30)
BYTES		NUMBER
BLOCKS		NUMBER
STATUS		VARCHAR2(9)
RELATIVE_FNO		NUMBER
AUTOEXTENSIBLE		VARCHAR2(3)
MAXBYTES		NUMBER
MAXBLOCKS		NUMBER
INCREMENT_BY		NUMBER
USER_BYTES		NUMBER
USER_BLOCKS		NUMBER
ONLINE_STATUS		VARCHAR2(7)

The screenshots show the Oracle documentation page for `DBA_DATA_FILES`. The table describes the columns of the `DBA_DATA_FILES` view.

Column	Datatype	NULL	Description
<code>FILE_NAME</code>	<code>VARCHAR2 (513)</code>		Name of the database file
<code>FILE_ID</code>	<code>NUMBER</code>		File identifier number of the database file
<code>TABLESPACE_NAME</code>	<code>VARCHAR2 (30)</code>		Name of the tablespace to which the file belongs
<code>BYTES</code>	<code>NUMBER</code>		Size of the file in bytes
<code>BLOCKS</code>	<code>NUMBER</code>		Size of the file in Oracle blocks
<code>STATUS</code>	<code>VARCHAR2 (9)</code>		File status: <code>AVAILABLE</code> or <code>INVALID</code> ( <code>INVALID</code> means that the file number is not in use, for example, a file in a tablespace that was dropped)
<code>RELATIVE_FNO</code>	<code>NUMBER</code>		Relative file number
<code>AUTOEXTENSIBLE</code>	<code>VARCHAR2 (3)</code>		Autoextensible indicator
<code>MAXBYTES</code>	<code>NUMBER</code>		Maximum file size in bytes
<code>MAXBLOCKS</code>	<code>NUMBER</code>		Maximum file size in blocks
<code>INCREMENT_BY</code>	<code>NUMBER</code>		Number of Oracle blocks used as autoextension increment
<code>USER_BYTES</code>	<code>NUMBER</code>		The size of the file available for user data. The actual size of the file minus the <code>USER_BYTES</code> value is used to store file related metadata.
<code>USER_BLOCKS</code>	<code>NUMBER</code>		Number of blocks which can be used by the data
<code>ONLINE_STATUS</code>	<code>VARCHAR2 (7)</code>		Online status of the file: <ul style="list-style-type: none"> <li><code>SYSOFF</code></li> <li><code>SYSTEM</code></li> <li><code>OFFLINE</code></li> <li><code>ONLINE</code></li> <li><code>RECOVER</code></li> </ul>

```
SQL> select tablespace_name,file_name,status from dba_data_files;
```

TABLESPACE_NAME	FILE_NAME	STATUS
SYSTEM	C:\ORACLE_12C\ORADATA\BD\SYSTEM01.DBF	AVAILABLE
SYSAUX	C:\ORACLE_12C\ORADATA\BD\SYSAUX01.DBF	AVAILABLE
UNDOTBS1	C:\ORACLE_12C\ORADATA\BD\UNDOTBS01.DBF	AVAILABLE
USERS	C:\ORACLE_12C\ORADATA\BD\USERS01.DBF	AVAILABLE
EXAMPLE	C:\ORACLE_12C\ORADATA\BD\EXAMPLE01.DBF	AVAILABLE
BI_IAS_OPSS	C:\ORACLE_12C\ORADATA\BD\BI_IAS_OPSS.DBF	AVAILABLE

BI_IAS_UMS	C:\ORACLE_12C\ORADATA\BD\BI_UMS.DBF	AVAILABLE
BI_MDS	C:\ORACLE_12C\ORADATA\BD\BI_MDS.DBF	AVAILABLE
BI_IAU	C:\ORACLE_12C\ORADATA\BD\BI_IAU.DBF	AVAILABLE
BI_BIPLATFORM	C:\ORACLE_12C\ORADATA\BD\BI_BIPLATFORM.DBF	AVAILABLE
BI_WLS	C:\ORACLE_12C\ORADATA\BD\BI_WLSSERVICES.DBF	AVAILABLE
BI_STB	C:\ORACLE_12C\ORADATA\BD\BI_SVCTBL.DBF	AVAILABLE
UBD_UNDO	E:\TEMP\UNDO_DB01.DBF	AVAILABLE
UBD_DATA	C:\ORACLE_12C\ORADATA\UBD_DATA.DBF	AVAILABLE

### 3) Informatii despre fisierele de date asignate bazei 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)
FIRST_NONLOGGED_SCN		NUMBER
FIRST_NONLOGGED_TIME		DATE
FOREIGN_DBID		NUMBER
FOREIGN_CREATION_CHANGE#		NUMBER
FOREIGN_CREATION_TIME		DATE
PLUGGED_READONLY		VARCHAR2(3)
PLUGIN_CHANGE#		NUMBER
PLUGIN_RESETLOGS_CHANGE#		NUMBER
PLUGIN_RESETLOGS_TIME		DATE
CON_ID		NUMBER

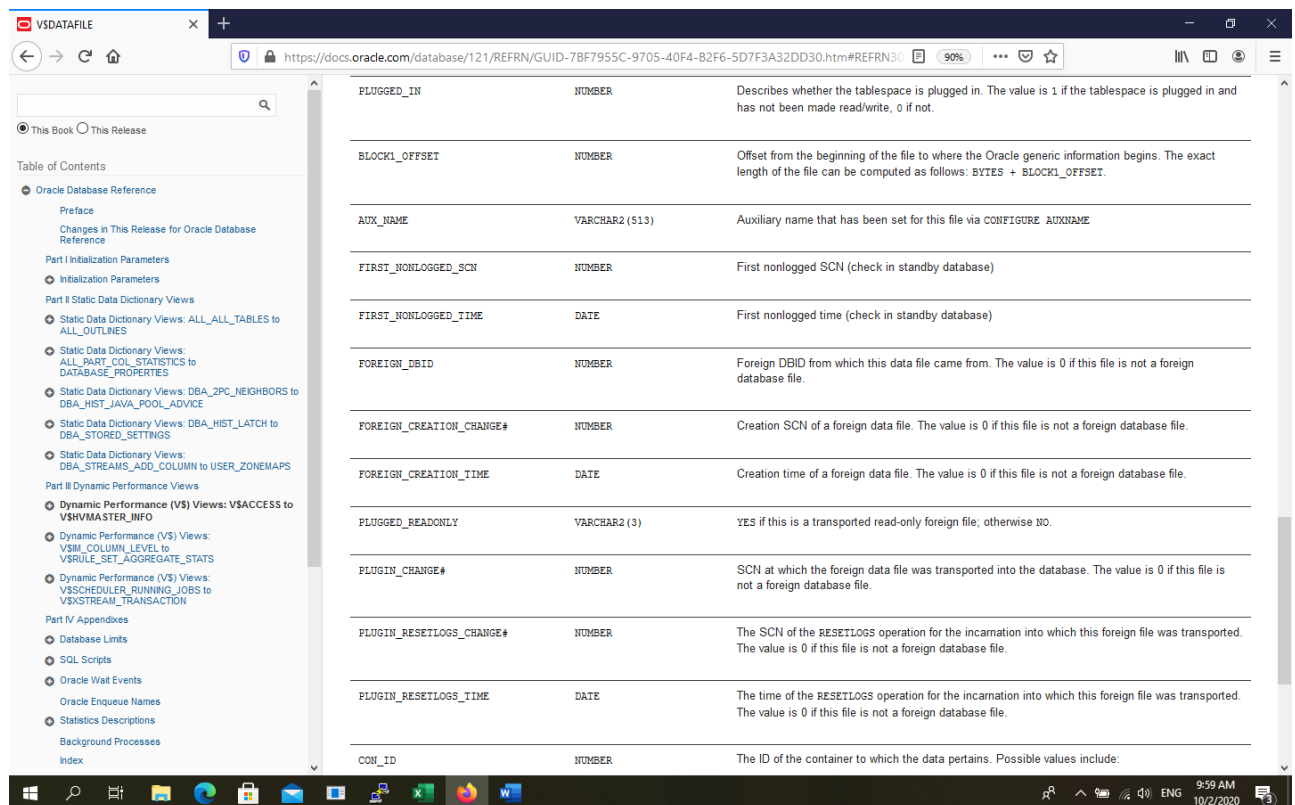


V\$DATAFILE displays datafile information from the control file.

**See Also:**  
"V\$DATAFILE\_HEADER", which displays information from data file headers

Column	Datatype	Description
FILE#	NUMBER	File identification number
CREATION_CHANGE#	NUMBER	Change number at which the data file was created
CREATION_TIME	DATE	Timestamp of the data file creation
TS#	NUMBER	Tablespace number
RFILE#	NUMBER	Tablespace relative data file number
STATUS	VARCHAR2(7)	Type of file (system or user) and its status. Values: OFFLINE, ONLINE, SYSTEM, RECOVER, SYSOFF (an offline file from the SYSTEM tablespace)
ENABLED	VARCHAR2(10)	Describes how accessible the file is from SQL: <ul style="list-style-type: none"> <li>DISABLED - No SQL access allowed</li> <li>READ ONLY - No SQL updates allowed</li> <li>READ WRITE - Full access allowed</li> <li>UNKNOWN - Unknown whether SQL updates would be allowed or not</li> </ul>
CHECKPOINT_CHANGE#	NUMBER	SCN at last checkpoint

CHECKPOINT_TIME	DATE	Timestamp of the checkpoint#
UNRECOVERABLE_CHANGE#	NUMBER	Last unrecoverable change number made to this data file. If the database is in ARCHIVELOG mode, then this column is updated when an unrecoverable operation completes. If the database is not in ARCHIVELOG mode, this column does not get updated.
UNRECOVERABLE_TIME	DATE	Timestamp of the last unrecoverable change. This column is updated only if the database is in ARCHIVELOG mode.
LAST_CHANGE#	NUMBER	Last change number made to this data file (null if the data file is being changed)
LAST_TIME	DATE	Timestamp of the last change
OFFLINE_CHANGE#	NUMBER	Offline change number of the last offline range. This column is updated only when the data file is brought online.
ONLINE_CHANGE#	NUMBER	Online change number of the last offline range
ONLINE_TIME	DATE	Online timestamp of the last offline range
BYTES	NUMBER	Current data file size (in bytes); 0 if inaccessible
BLOCKS	NUMBER	Current data file size (in blocks); 0 if inaccessible
CREATE_BYTES	NUMBER	Size when created (in bytes)
BLOCK_SIZE	NUMBER	Block size of the data file
NAME	VARCHAR2(513)	Name of the data file



SQL> select file#, name, creation\_time, status, enabled from v\$datafile;

FILE#	NAME	CREATION_	STATUS	ENABLED
1	C:\ORACLE_12C\ORADATA\BD\SYSTEM01.DBF	11-SEP-14	SYSTEM	READ WRITE
3	C:\ORACLE_12C\ORADATA\BD\SYS_AUX01.DBF	11-SEP-14	ONLINE	READ WRITE
5	C:\ORACLE_12C\ORADATA\BD\UNDOTBS01.DBF	11-SEP-14	ONLINE	READ WRITE
6	C:\ORACLE_12C\ORADATA\BD\USERS01.DBF	11-SEP-14	ONLINE	READ WRITE
7	C:\ORACLE_12C\ORADATA\BD\EXAMPLE01.DBF	08-MAY-19	ONLINE	READ WRITE
8	C:\ORACLE_12C\ORADATA\BD\BI_IAS_OPSS.DBF	02-AUG-19	ONLINE	READ WRITE
9	C:\ORACLE_12C\ORADATA\BD\BI_UMS.DBF	02-AUG-19	ONLINE	READ WRITE
10	C:\ORACLE_12C\ORADATA\BD\BI_MDS.DBF	02-AUG-19	ONLINE	READ WRITE
11	C:\ORACLE_12C\ORADATA\BD\BI_IAU.DBF	02-AUG-19	ONLINE	READ WRITE
12	C:\ORACLE_12C\ORADATA\BD\BI_BIPLATFORM.DBF	02-AUG-19	ONLINE	READ WRITE
13	C:\ORACLE_12C\ORADATA\BD\BI_WLSSERVICES.DBF	02-AUG-19	ONLINE	READ WRITE
14	C:\ORACLE_12C\ORADATA\BD\BI_SVCTBL.DBF	02-AUG-19	ONLINE	READ WRITE
15	E:\TEMP\UNDO_DB01.DBF	29-OCT-19	ONLINE	READ WRITE
16	E:\TEMP\UBD_DATA11.DBF	07-NOV-19	ONLINE	READ WRITE
17	C:\ORACLE_12C\ORADATA\BD BD_DATA.DBF	02-DEC-19	ONLINE	READ WRITE

4) Informatii despre fisierele de date temporare create pe 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  
RELATIVE\_FNO  
AUTOEXTENSIBLE  
MAXBYTES  
MAXBLOCKS  
INCREMENT\_BY  
USER\_BYTES  
USER\_BLOCKS

CHAR(9)  
NUMBER  
VARCHAR2(3)  
NUMBER  
NUMBER  
NUMBER  
NUMBER  
NUMBER

The screenshot shows the Oracle Database Reference documentation for the `DBA_TEMP_FILES` view. The browser window displays the URL `https://docs.oracle.com/database/121/REFRN/GUID-9251BF75-0FC4-4271-8736-8AAD4C549563.htm#REFRN23288`. The left sidebar contains a Table of Contents with sections like Preface, Part I Initialization Parameters, Part II Static Data Dictionary Views, Part III Dynamic Performance Views, and Part IV Appendices. The main content area shows the description of `DBA_TEMP_FILES` and a table of its columns.

`DBA_TEMP_FILES` describes all temporary files (tempfiles) in the database.

Column	Datatype	NULL	Description
<code>FILE_NAME</code>	<code>VARCHAR2 (513)</code>		Name of the database temp file
<code>FILE_ID</code>	<code>NUMBER</code>		File identifier number of the database temp file
<code>TABSPACE_NAME</code>	<code>VARCHAR2 (30)</code>	<code>NOT NULL</code>	Name of the tablespace to which the file belongs
<code>BYTES</code>	<code>NUMBER</code>		Size of the file (in bytes)
<code>BLOCKS</code>	<code>NUMBER</code>		Size of the file (in Oracle blocks)
<code>STATUS</code>	<code>VARCHAR2 (7)</code>		File status: <ul style="list-style-type: none"><li>• OFFLINE</li><li>• ONLINE</li><li>• UNKNOWN</li></ul>
<code>RELATIVE_FNO</code>	<code>NUMBER</code>		Tablespace-relative file number
<code>AUTOEXTENSIBLE</code>	<code>VARCHAR2 (3)</code>		Indicates whether the file is autoextensible (YES) or not (NO)
<code>MAXBYTES</code>	<code>NUMBER</code>		maximum size of the file (in bytes)
<code>MAXBLOCKS</code>	<code>NUMBER</code>		Maximum size of the file (in Oracle blocks)

The second screenshot shows the same documentation but with additional columns visible in the table:

<code>INCREMENT_BY</code>	<code>NUMBER</code>		Default increment for autoextension (in Oracle blocks)
<code>USER_BYTES</code>	<code>NUMBER</code>		Size of the useful portion of the file (in bytes)
<code>USER_BLOCKS</code>	<code>NUMBER</code>		Size of the useful portion of the file (in Oracle blocks)

SQL> select file\_name,tablespace\_name, status from dba\_temp\_files;

FILE_NAME	TABLESPACE_NAME	STATUS
C:\ORACLE_12C\ORADATA\BD\TEMP01.DBF	TEMP	ONLINE
C:\ORACLE_12C\ORADATA\BD\BI_IAS_TEMP.DBF	BI_IAS_TEMP	ONLINE
C:\ORACLE_12C\ORADATA\BD\BD_TEMP.DBF	BD_TEMP	ONLINE

5) Informatii despre fisierele temporare create pe baza de date (preluate din view):

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)
CON_ID		NUMBER

**V\$tempfile**

V\$tempfile displays temp file information.

Column	Datatype	Description
FILE#	NUMBER	Absolute file number
CREATION_CHANGE#	NUMBER	Creation System Change Number (SCN)
CREATION_TIME	DATE	Creation time
TS#	NUMBER	Tablespace number
RFILE#	NUMBER	Relative file number in the tablespace
STATUS	VARCHAR2 (7)	Status of the file (OFFLINE ONLINE)
ENABLED	VARCHAR2 (10)	Enabled for read and/or write
BYTES	NUMBER	Size of the file in bytes (from the file header)
BLOCKS	NUMBER	Size of the file in blocks (from the file header)
CREATE_BYTES	NUMBER	Creation size of the file (in bytes)
BLOCK_SIZE	NUMBER	Block size for the file
NAME	VARCHAR2 (513)	Name of the file
CON_ID	NUMBER	The ID of the container to which the data pertains. Possible values include: <ul style="list-style-type: none"> <li>0: This value is used for rows containing data that pertain to the entire CDB. This value is also used for rows in non-CDBs.</li> <li>1: This value is used for rows containing data that pertain to only the root</li> <li>n: Where n is the applicable container ID for the rows containing data</li> </ul>

SQL> select file#,name, creation\_time, status from v\$tempfile;

FILE#	NAME	CREATION_	STATUS
1	C:\ORACLE_12C\ORADATA\BD\TEMP01.DBF	08-MAY-19	ONLINE
2	C:\ORACLE_12C\ORADATA\BD\BI_IASTEMP.DBF	02-AUG-19	ONLINE
3	C:\ORACLE_12C\ORADATA\BD\BD_TEMP.DBF	02-DEC-19	ONLINE

6) 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)

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DATABASE\_PROPERTIES lists permanent database properties.

Column	Datatype	NULL	Description
PROPERTY_NAME	VARCHAR2(128)	NOT NULL	Property name
PROPERTY_VALUE	VARCHAR2(4000)		Property value
DESCRIPTION	VARCHAR2(4000)		Property description

**Note:**  
The CDB\_PROPERTIES view provides access to data visible to PDBs through the DATABASE\_PROPERTIES view.

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_EDITION	ORA\$BASE	Name of the database default edition
Flashback Timestamp TimeZone	GMT	Flashback timestamp created in GMT
TDE_MASTER_KEY_ID		
DEFAULT_TBS_TYPE	SMALLFILE	Default tablespace type
GLOBAL_DB_NAME	BD	Global database name

NLS_RDBMS_VERSION	12.1.0.2.0	RDBMS version for NLS parameters
NLS_NCHAR_CHARACTERSET	AL16UTF16	NCHAR Character set
NLS_NCHAR_CONV_EXCP	FALSE	NLS conversion exception
NLS_LENGTH_SEMANTICS	BYTE	NLS length semantics
NLS_COMP	BINARY	NLS comparison
NLS_DUAL_CURRENCY	\$	Dual currency symbol
NLS_TIMESTAMP_TZ_FORMAT	DD-MON-RR HH.MI.SSXFF AM TZR	Timestamp with timezone format
NLS_TIME_TZ_FORMAT	HH.MI.SSXFF AM TZR	Time with timezone format
NLS_TIMESTAMP_FORMAT	DD-MON-RR HH.MI.SSXFF AM	Time stamp format
NLS_TIME_FORMAT	HH.MI.SSXFF AM	Time format
NLS_SORT	BINARY	Linguistic definition
NLS_DATE_LANGUAGE	AMERICAN	Date language
NLS_DATE_FORMAT	DD-MON-RR	Date format
NLS_CALENDAR	GREGORIAN	Calendar system
NLS_CHARACTERSET	WE8MSWIN1252	Character set
NLS_NUMERIC_CHARACTERS	.,	Numeric characters
NLS_ISO_CURRENCY	AMERICA	ISO currency
NLS_CURRENCY	\$	Local currency
NLS_TERRITORY	AMERICA	Territory
NLS_LANGUAGE	AMERICAN	Language
DST_SECONDARY_TT_VERSION	0	Version of secondary timezone data file
DST_PRIMARY_TT_VERSION	18	Version of primary timezone data file
DST_UPGRADE_STATE	NONE	State of Day Light Saving Time Upgrade
MAX_STRING_SIZE	STANDARD_MAX_STRING_SIZE	paramter used for dictionary metadata
EXPORT_VIEWS_VERSION	8	Export views revision #
WORKLOAD_CAPTURE_MODE		CAPTURE implies workload capture is in progress
WORKLOAD_REPLAY_MODE		PREPARE implies external replay clients can connect; REPLAY implies workload replay is in progress
NO_USERID_VERIFIER_SALT		79F6374D9E33A4DF86E3D6BEE0F376EF
OLS_OID_STATUS	0	OLS OID Status used for Label Security
DBTIMEZONE	00:00	DB time zone

7) Informatii despre tablespace-urile alocate userilor creati pe baza de date:

SQL> desc dba\_users

Name	Null?	Type
-----	-----	-----
USERNAME	NOT NULL	VARCHAR2(128)
USER_ID	NOT NULL	NUMBER
PASSWORD		VARCHAR2(4000)
ACCOUNT_STATUS	NOT NULL	VARCHAR2(32)
LOCK_DATE		DATE
EXPIRY_DATE		DATE
DEFAULT_TABLESPACE	NOT NULL	VARCHAR2(30)
TEMPORARY_TABLESPACE	NOT NULL	VARCHAR2(30)
CREATED	NOT NULL	DATE
PROFILE	NOT NULL	VARCHAR2(128)
INITIAL_RSRC_CONSUMER_GROUP		VARCHAR2(128)
EXTERNAL_NAME		VARCHAR2(4000)
PASSWORD_VERSIONS		VARCHAR2(12)
EDITIONS_ENABLED		VARCHAR2(1)
AUTHENTICATION_TYPE		VARCHAR2(8)
PROXY_ONLY_CONNECT		VARCHAR2(1)
COMMON		VARCHAR2(3)
LAST_LOGIN	TIMESTAMP(9)	WITH TIME ZONE
ORACLE_MAINTAINED		VARCHAR2(1)

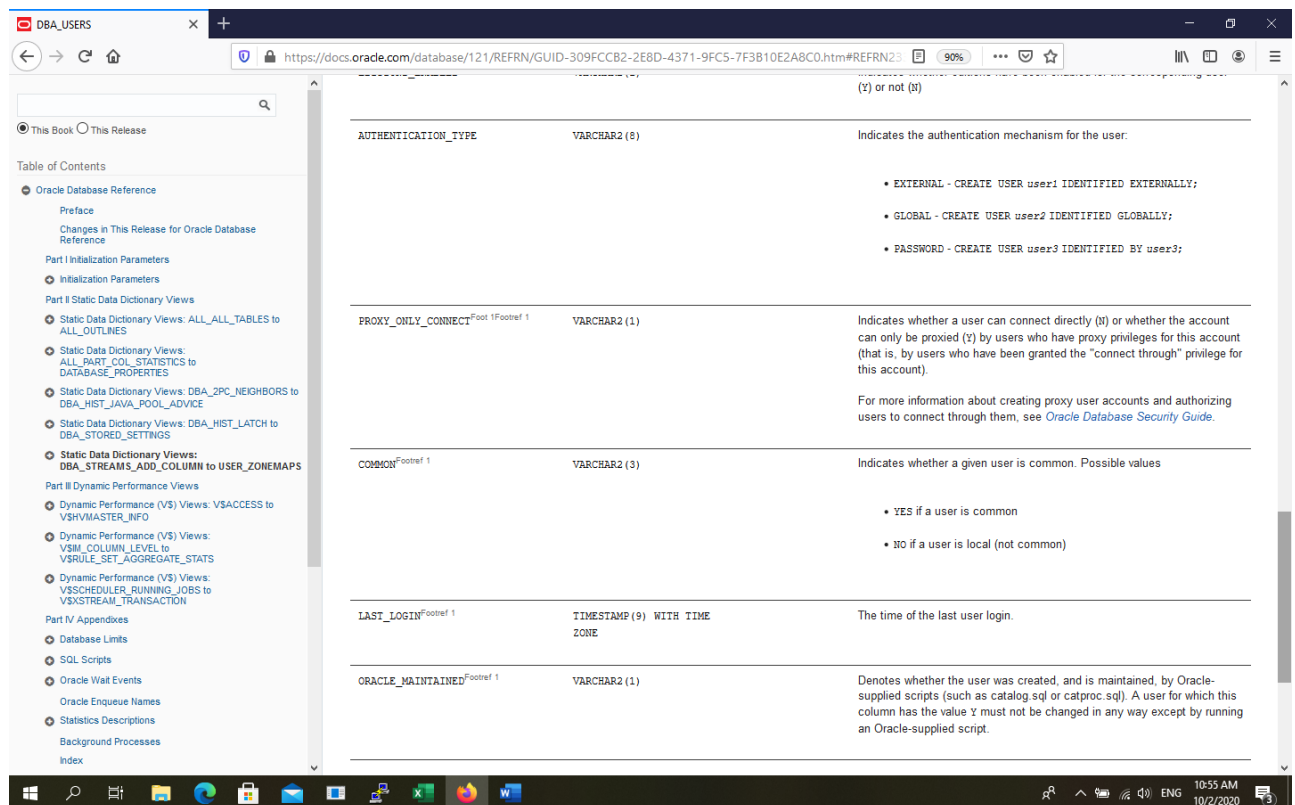
DBA\_USERS describes all users of the database.

### Related View

USER\_USERS describes the current user. This view does not display the PASSWORD, PROFILE, PASSWORD\_VERSIONS, EDITIONS\_ENABLED, AUTHENTICATION\_TYPE, and LAST\_LOGIN columns.

Column	Datatype	NULL	Description
USERNAME	VARCHAR2 (128)	NOT NULL	Name of the user
USER_ID	NUMBER	NOT NULL	ID number of the user
PASSWORD	VARCHAR2 (4000)		This column is deprecated in favor of the AUTHENTICATION_TYPE column
ACCOUNT_STATUS	VARCHAR2 (32)	NOT NULL	Account status: <ul style="list-style-type: none"><li>• OPEN</li><li>• EXPIRED</li><li>• EXPIRED (GRACE)</li><li>• LOCKED (TIMED)</li><li>• LOCKED</li><li>• EXPIRED &amp; LOCKED (TIMED)</li><li>• EXPIRED (GRACE) &amp; LOCKED (TIMED)</li><li>• EXPIRED &amp; LOCKED</li><li>• EXPIRED (GRACE) &amp; LOCKED</li></ul>
LOCK_DATE	DATE		Date the account was locked if account status was LOCKED
EXPIRY_DATE	DATE		Date of expiration of the account
DEFAULT_TABLESPACE	VARCHAR2 (30)	NOT NULL	Default tablespace for data
TEMPORARY_TABLESPACE	VARCHAR2 (30)	NOT NULL	Name of the default tablespace for temporary tables or the name of a tablespace group
CREATED	DATE	NOT NULL	User creation date
PROFILE	VARCHAR2 (128)	NOT NULL	User resource profile name
INITIAL_RSRC_CONSUMER_GROUP	VARCHAR2 (128)		Initial resource consumer group for the user
EXTERNAL_NAME	VARCHAR2 (4000)		User external name
PASSWORD_VERSIONS	VARCHAR2 (12)		Shows the list of versions of the password hashes (also known as "verifiers") existing for the account. <p>The PASSWORD_VERSIONS column value includes 10G if an old case-insensitive ORCL hash exists, 11G if a SHA-1 hash exists, and 12C if a de-optimized PBKDF2-based hash exists.</p> <p>For more information about the 12C verifier, see <a href="#">Oracle Database Security Guide</a>.</p> <p>Note that any combination of these verifiers can exist for any given account.</p>
EDITIONS_ENABLED	VARCHAR2 (1)		Indicates whether editions have been enabled for the corresponding user (Y) or not (N)





SQL> select username, default\_tablespace, temporary\_tablespace from dba\_users;

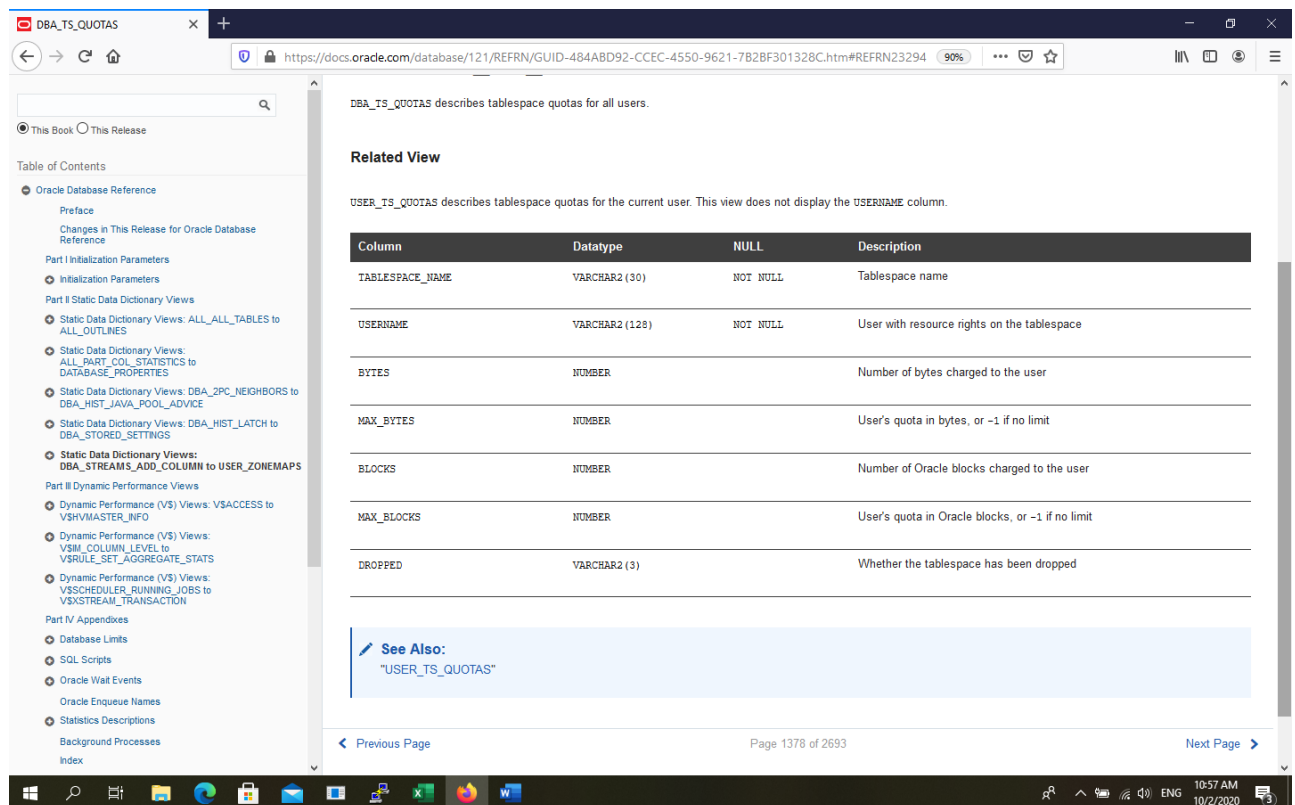
USERNAME	DEFAULT_TABLESPACE	TEMPORARY_TABLESPACE
SCOTT	USERS	TEMP
BI	USERS	TEMP
SH	USERS	TEMP
OE	USERS	TEMP
HR	USERS	TEMP
TEST	BD_DATA	BD_TEMP
UBD1	BD_DATA	BD_TEMP

8) Informatii despre spatiul alocat si spatiul utilizat de catre useri in tablespace-uri:

SQL> desc dba\_ts\_quotas

Name	Null?	Type
TABLESPACE_NAME	NOT NULL	VARCHAR2(30)
USERNAME	NOT NULL	VARCHAR2(30)
BYTES		NUMBER
MAX_BYTES		NUMBER
BLOCKS		NUMBER
MAX_BLOCKS		NUMBER
DROPPED		VARCHAR2(3)





SQL> select tablespace\_name, username, max\_bytes, bytes from dba\_ts\_quotas;

TABLESPACE_NAME	USERNAME	MAX_BYTES	BYTES
BI_WLS	BI_WLS_RUNTIME	-1	131072
BI_WLS	BI_WLS	-1	131072
SYSAUX	AUDSYS	-1	1572864
BI_IAS_OPSS	BI_OPSS	-1	58720256
SYSAUX	GSMADMIN_INTERNAL	104857600	1441792
EXAMPLE	OE	-1	10420224
BI_MDS	BI_MDS	-1	17498112
SYSAUX	FLows_FILES	-1	0
SYSAUX	APPQOSSYS	-1	0
BI_STB	BI_STB	-1	917504
BI_IAS_UMS	BI_UMS	-1	7471104
SYSAUX	OLAPSYS	-1	0
BD_DATA	TEST2	10485760	0
BD_DATA	TEST	5242880	0

9) Informatii despre userul curent:

SQL> desc user\_users

Name	Null?	Type
USERNAME	NOT NULL	VARCHAR2(128)
USER_ID	NOT NULL	NUMBER
ACCOUNT_STATUS	NOT NULL	VARCHAR2(32)
LOCK_DATE		DATE
EXPIRY_DATE		DATE
DEFAULT_TABLESPACE	NOT NULL	VARCHAR2(30)

TEMPORARY_TABLESPACE	NOT NULL	VARCHAR2(30)
CREATED	NOT NULL	DATE
INITIAL_RSRC_CONSUMER_GROUP		VARCHAR2(128)
EXTERNAL_NAME		VARCHAR2(4000)
PROXY_ONLY_CONNECT		VARCHAR2(1)
COMMON		VARCHAR2(3)
ORACLE_MAINTAINED		VARCHAR2

SQL> select user\_id, username, created, lock\_date from user\_users;

USER_ID	USERNAME	CREATED	LOCK_DATE
-----	-----	-----	-----
110	SCOTT	08-MAY-19	

10) Crearea unui tablespace temporar:

SQL> create temporary tablespace ubd\_temp2 tempfile 'e:\temp\ubd\_temp1.dbf' size 10m  
extent management local uniform size 2M;  
Tablespace created.

11) Setare tablespace temporar ca default:

SQL> alter database default temporary tablespace ubd\_temp;  
Database altered.

12) Verificare in dictionar ce tablespace temporar este setat ca default:

SQL> select \* from database\_properties where property\_name =  
'DEFAULT\_TEMP\_TABLESPACE' ;

PROPERTY_NAME	PROPERTY_VALUE	DESCRIPTION
-----	-----	-----
DEFAULT_TEMP_TABLESPACE	UBD_TEMP	Name of default temporary tablespace

13) Schimbare stare tablespace permanent ca READ ONLY:

SQL> alter tablespace ubd\_data1 read only;  
Tablespace altered.

14) Schimbare stare tablespace permanent ca READ WRITE:

SQL> alter tablespace ubd\_data1 read write;  
Tablespace altered.

Verificare:

SQL> select tablespace\_name, block\_size, status from dba\_tablespaces where tablespace\_name  
='UBD\_DATA1';

TABLESPACE_NAME	BLOCK_SIZE	STATUS
-----	-----	-----
UBD_DATA1	8192	ONLINE

15) Verificare in dictionar starea unui tablespace:

```
SQL> select tablespace_name, status from dba_tablespaces where tablespace_name =  
'UBD_TEMP';
```

TABLESPACE_NAME	STATUS
UBD_TEMP	READ ONLY

16) Schimbare stare tablespace permanent ca OFFLINE/ONLINE:

```
SQL> alter tablespace ubd_data1 offline;  
Tablespace altered.
```

Verificare:

```
SQL> select tablespace_name, status from dba_tablespaces where tablespace_name='UBD_DATA1';
```

TABLESPACE_NAME	STATUS
UBD_TEMP	OFFLINE

Obs. In starea offline se trece numai din starea online( nu din read only).

```
SQL> alter tablespace ubd_data1 online;  
Tablespace altered.
```

17) Mutare/redenumire fisier de date asignat unui tablespace(tablespace offline, fisier destinatie existent):

```
SQL> alter tablespace ubd_data1 offline;  
SQL> alter tablespace ubd_data1 rename datafile 'e:\temp\ubd_data1.dbf' to  
'e:\temp\ubd_data33.dbf';  
Tablespace altered.
```

➤ Obs.

- Fisierul destinatie trebuie sa existe fizic, altfel se genereaza o eroare:

ERROR at line 1:

ORA-01525: error in renaming data files

ORA-01141: error renaming data file 16 - new file 'e:\temp\ubd\_data11.dbf' not found

ORA-01110: data file 16: 'E:\TEMP\UBD\_DATA1.DBF'

ORA-27041: unable to open file

OSD-04002: unable to open file

O/S-Error: (OS 2) The system cannot find the file specified.

- Dupa restartarea bazei de date fisierul initial nu mai este asignat si poate fi sters din SO.

```
SQL> select tablespace_name,file_name,status from dba_data_files;
```

18) Mutare/redenumire fisier de date asignat unui database:

```
SQL> alter database rename file 'e:\temp\ubd_data33.dbf' to  
'e:\temp\ubd_data44.dbf';
```

Obs:

- Baza de date trebuie sa fie in starea MOUNT/OPEN;
- Fisierul destinatie trebuie sa existe fizic;
- Dupa redenumire fisierul initial poate fi sters din SO, fara restartarea bazei de date.

19) Crearea unui tablespace de tip undo:

```
SQL> create undo tablespace ubd_undo1 datafile 'e:\temp\ubd_undo1.dbf' size 10M;  
Tablespace created.
```

20) Stergerea din dictionar a unui fisier de date asignat unui tablespace( trebuie sa nu fie singurul asignat):

```
SQL> alter tablespace ubd_data1 drop datafile 'e:\temp\ubd_data44.dbf'
```

21) Stergerea din dictionar a unui fisier temporar asignat unui tablespace( trebuie sa nu fie singurul asignat):

```
SQL> alter tablespace ubd_temp2 drop tempfile 'e:\temp\ubd_temp1.dbf'
```

22) Stergerea din dictionar a unui fisier temporar asignat unui database:

```
SQL> alter database tempfile 'e:\temp\ubd_temp1.dbf' drop including datafiles;  
Database altered.
```

23) Stergerea din dictionar a unui tablespace(inclusiv fisierele de date asiginate):

```
SQL> drop tablespace ubd_data1 including contents and datafiles;  
Tablespace dropped.
```

Verificare:

```
SQL> select tablespace_name from dba_tablespaces;  
SQL> select tablespace_name,file_name,status from dba_data_files;  
SQL> select tablespace_name,file_name,status from dba_temp_files;
```