Tablespace On-Offline

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tablespace_on-offline_
–

https://atl.kr/dokuwiki/doku.php/tablespace_on-offline_%ED%85%8C%EC%9D%B4%EB%B8%94%EC%8A%A4%ED%8E%98%EC%9D%B4%EC%8A%A4_%EC%98%A8%EB%9D%BC%EC%9D%B8_%EC%98%A4%ED%94%84%EB%9D%BC%EC%9D%B8

Tablespace On-Offline   /

(TABLESPACE) &   /   (ONLINE/OFFLINE)

(TABLESPACE)

- DBA
- DBA

```
SQL> create tablespace test
2 datafile '/app/rmantest/test01.dbf size 5M;
```

```
JAYLEE>create tablespace test
  2  datafile '/app/testrman/test01.dbf' size 5M;

Tablespace created.
```

```
SQL> select tablespace_name, status, contents, extent_management,

2 segment_space_management

3 from dba_tablespaces;
```

```
JAYLEE>select tablespace_name, status, contents, extent_management,
  2    segment_space_management
  3   from dba_tablespaces;

TABLESPACE_NAME                 STATUS    CONTENTS   EXTENT_MAN SEGMEN
------------------------------ --------- ---------- ---------- ------
SYSTEM                          ONLINE    PERMANENT  LOCAL      MANUAL
SYSAUX                          ONLINE    PERMANENT  LOCAL      AUTO
TEMP                            ONLINE    TEMPORARY  LOCAL      MANUAL
USERS                           ONLINE    PERMANENT  LOCAL      AUTO
EXAMPLE                         ONLINE    PERMANENT  LOCAL      AUTO
UNDO01                          ONLINE    UNDO       LOCAL      MANUAL
TEMP2                           ONLINE    TEMPORARY  LOCAL      MANUAL
TEMP3                           ONLINE    TEMPORARY  LOCAL      MANUAL
TEMP_SCOTT1                     ONLINE    TEMPORARY  LOCAL      MANUAL
TEMP_SCOTT2                     ONLINE    TEMPORARY  LOCAL      MANUAL
TS_LOB                          ONLINE    PERMANENT  LOCAL      AUTO
TEST                            ONLINE    PERMANENT  LOCAL      AUTO

12 rows selected.
```

(DATA FILE)   (   )

```
SQL> alter tablespace test

2 add datafile '/app/testrman/test02.dbf' size 10M;
```

```
JAYLEE>alter tablespace test
  2   add datafile '/app/testrman/test02.dbf' size 10M;

Tablespace altered.
```

(DATA FILE)   (   )

```
SQL> alter database datafile '/app/testrman/test01.dbf' resize 20M;
```

```
JAYLEE>alter database datafile '/app/testrman/test01.dbf' resize 15M;

Database altered.
```

(DATA FILE)   (   )

```
SQL> alter database datafile '/app/testrman/test02.dbf' autoextend on;

* autoextend on :          16GB (32      ) , 32GB (64      )
```

```
JAYLEE>alter database datafile '/app/testrman/test02.dbf' autoextend on;

Database altered.
```

```
SQL> set line 200

> col tablespace_name for a10

> col file_name for a50

> select tablespace_name, bytes/1024/1024 MB, file_name, autoextensible
"AUTO", online_status

2 from dba_data_files;
```

```
JAYLEE>set line 200
JAYLEE>col tablespace_name for a10
JAYLEE>col file_name for a50
JAYLEE>select tablespace_name,bytes/1024/1024 MB,file_name,autoextensible "AUTO", online_status
  2  from dba_data_files;

TABLESPACE   MB FILE_NAME                                           AUT ONLINE_
---------- ---- --------------------------------------------------- --- -------
TS_LOB        1 /app/testrman/ts_lob01.dbf                          NO  ONLINE
UNDO01      383 /app/testrman/undo01.dbf                            YES ONLINE
EXAMPLE     339 /app/testrman/example01.dbf                         YES ONLINE
USERS        91 /app/testrman/users01.dbf                           YES ONLINE
SYSAUX      600 /app/testrman/sysaux01.dbf                          YES ONLINE
SYSTEM      720 /app/testrman/system01.dbf                          YES SYSTEM
TEST         15 /app/testrman/test01.dbf                            NO  ONLINE
TEST         10 /app/testrman/test02.dbf                            YES ONLINE

8 rows selected.
```

(OFFLINE) :

3   :

1.   (NORMAL MODE) :
2.   (TEMPORARY MODE) :
                          (: ORA-01191)
3.   (IMMEDIATE MODE) :

              ,

```
SQL> select name, status from v$datafile;
```

(NORMAL MODE)

```
SQL> alter tablespace test offline;
```

```
JAYLEE>alter tablespace test offline;

Tablespace altered.

JAYLEE>select name, status from v$datafile;

NAME                                     STATUS
---------------------------------------- --------
/app/testrman/system01.dbf               SYSTEM
/app/testrman/sysaux01.dbf               ONLINE
/app/testrman/test01.dbf                 OFFLINE
/app/testrman/users01.dbf                ONLINE
/app/testrman/example01.dbf              ONLINE
/app/testrman/undo01.dbf                 ONLINE
/app/testrman/ts_lob01.dbf               ONLINE

7 rows selected.
```

(TEMPORARY MODE)

```
SQL> alter tablespace test offline temporary;
```

(IMMEDIATE MODE)

```
SQL> archive log list;
```

```
SQL> alter database datafile '/app/testrman/test01.dbf' offline;
```

```
JAYLEE>archive log list;
Database log mode              Archive Mode
Automatic archival             Enabled
Archive destination           /data/arc2
Oldest online log sequence     66
Next log sequence to archive   68
Current log sequence           68
JAYLEE>alter database datafile '/app/testrman/test01.dbf' offline;

Database altered.
```

(NO ARCHIVELOG MODE)

```
SQL> alter database datafile '/app/testrman/test01.dbf' offline drop;
```

```
JAYLEE>archive log list;
Database log mode              Archive Mode
Automatic archival             Enabled
Archive destination            /data/arc2
Oldest online log sequence     66
Next log sequence to archive   68
Current log sequence           68
JAYLEE>alter database datafile '/app/testrman/test01.dbf' offline;

Database altered.
```

(RECOVER)

- (NO ARCHIVELOG MODE)
- (TEMPORARY)
-

```
SQL> recover tablespace test;
```

```
NAME                                     STATUS
---------------------------------------- --------
/app/testrman/system01.dbf               SYSTEM
/app/testrman/sysaux01.dbf               ONLINE
/app/testrman/test01.dbf                 RECOVER
/app/testrman/users01.dbf                ONLINE
/app/testrman/example01.dbf              ONLINE
/app/testrman/undo01.dbf                 ONLINE
/app/testrman/ts_lob01.dbf               ONLINE

7 rows selected.

JAYLEE>recover tablespace test;
Media recovery complete.
JAYLEE>
JAYLEE>@df

NAME                                     STATUS
---------------------------------------- --------
/app/testrman/system01.dbf               SYSTEM
/app/testrman/sysaux01.dbf               ONLINE
/app/testrman/test01.dbf                 OFFLINE
/app/testrman/users01.dbf                ONLINE
/app/testrman/example01.dbf              ONLINE
/app/testrman/undo01.dbf                 ONLINE
/app/testrman/ts_lob01.dbf               ONLINE

7 rows selected.
```

(ONLINE) :   ,   (RECOVER)

,   (ONLINE)

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SCN   ,   (CHECK POINT)
.   .

(CHECK POINT) SCN

```
SQL> select a.file#, a.ts#, b.name, a.status, a.checkpoint_change#

2 from v$datafile a, v$tablespace b

3 where a.ts#=b.ts#;
```

```
JAYLEE>select a.file#, a.ts#, b.name, a.status, a.checkpoint_change#
  2  from v$datafile a, v$tablespace b
  3  where a.ts#=b.ts#;

    FILE#       TS# NAME                                     STATUS   CHECKPOINT_CHANGE#
---------- ---------- --------------------------------- -------- ------------------
        1         0 SYSTEM                                   SYSTEM              2275565
        2         1 SYSAUX                                   ONLINE              2275565
        3        20 TEST                                     OFFLINE             2275989
        4         4 USERS                                    ONLINE              2275565
        5         6 EXAMPLE                                  ONLINE              2275565
        6         7 UND001                                   ONLINE              2275565
        7        17 TS_LOB                                   ONLINE              2275565

7 rows selected.
```

```
SQL> alter tablespace test online;

> alter system checkpoint;
```

```
JAYLEE>alter tablespace test online;

Tablespace altered.

JAYLEE>select a.file#, a.ts#, b.name, a.status, a.checkpoint_change#
  2  from v$datafile a, v$tablespace b
  3  where a.ts#=b.ts#;

     FILE#        TS# NAME                                    STATUS   CHECKPOINT_CHANGE#
---------- ---------- --------------------------------------- -------- ------------------
         1          0 SYSTEM                                  SYSTEM              2275565
         2          1 SYSAUX                                  ONLINE              2275565
         3         20 TEST                                    ONLINE              2276378
         4          4 USERS                                   ONLINE              2275565
         5          6 EXAMPLE                                 ONLINE              2275565
         6          7 UNDO01                                  ONLINE              2275565
         7         17 TS_LOB                                  ONLINE              2275565

7 rows selected.

JAYLEE>alter system checkpoint;

System altered.

JAYLEE>select a.file#, a.ts#, b.name, a.status, a.checkpoint_change#
  2  from v$datafile a, v$tablespace b
  3  where a.ts#=b.ts#;

     FILE#        TS# NAME                                    STATUS   CHECKPOINT_CHANGE#
---------- ---------- --------------------------------------- -------- ------------------
         1          0 SYSTEM                                  SYSTEM              2276398
         2          1 SYSAUX                                  ONLINE              2276398
         3         20 TEST                                    ONLINE              2276398
         4          4 USERS                                   ONLINE              2276398
         5          6 EXAMPLE                                 ONLINE              2276398
         6          7 UNDO01                                  ONLINE              2276398
         7         17 TS_LOB                                  ONLINE              2276398

7 rows selected.
```