

```
[oracle@ol6-ag-rac1 ~]$ rman target sys
```

```
Recovery Manager: Release 11.2.0.3.0 - Production on Mon Jan 16 23:20:20 2017
```

```
Copyright (c) 1982, 2011, Oracle and/or its affiliates. All rights reserved.
```

```
target database Password:
```

```
connected to target database: DB11G (DBID=400243355)
```

```
RMAN> shutdown abort;
```

```
using target database control file instead of recovery catalog
```

```
Oracle instance shut down
```

```
RMAN> exit
```

```
Recovery Manager complete.
```

```
[oracle@ol6-ag-rac1 ~]$ █
```

```
[oracle@ol6-ag-rac1 oradata]$ ls -la $ORACLE_BASE/oradata/DB11G/datafiles
total 2138888
drwxr-xr-x. 2 oracle oinstall      4096 Jan 16 21:12 .
drwxr-xr-x. 5 oracle oinstall      4096 Jan 16 20:27 ..
-rw-r-----. 1 oracle oinstall 10493952 Jan 16 22:06 index01
-rw-r-----. 1 oracle oinstall 702554112 Jan 16 23:19 sysaux01
-rw-r-----. 1 oracle oinstall 754982912 Jan 16 23:18 system01
-rw-r-----. 1 oracle oinstall  20979712 Jan 16 23:19 temp01
-rw-r-----. 1 oracle oinstall 713039872 Jan 16 23:19 undo01
-rw-r-----. 1 oracle oinstall  5251072 Jan 16 22:06 users01
[oracle@ol6-ag-rac1 oradata]$ rm $ORACLE_BASE/oradata/DB11G/datafiles/users01
[oracle@ol6-ag-rac1 oradata]$ ls -la $ORACLE_BASE/oradata/DB11G/datafiles
total 2133760
drwxr-xr-x. 2 oracle oinstall      4096 Jan 16 23:22 .
drwxr-xr-x. 5 oracle oinstall      4096 Jan 16 20:27 ..
-rw-r-----. 1 oracle oinstall 10493952 Jan 16 22:06 index01
-rw-r-----. 1 oracle oinstall 702554112 Jan 16 23:20 sysaux01
-rw-r-----. 1 oracle oinstall 754982912 Jan 16 23:18 system01
-rw-r-----. 1 oracle oinstall  20979712 Jan 16 23:19 temp01
-rw-r-----. 1 oracle oinstall 713039872 Jan 16 23:19 undo01
[oracle@ol6-ag-rac1 oradata]$ █
```

```
[oracle@ol6-ag-rac1 oradata]$ sqlplus / as sysdba
```

```
SQL*Plus: Release 11.2.0.3.0 Production on Mon Jan 16 23:23:32 2017
```

```
Copyright (c) 1982, 2011, Oracle. All rights reserved.
```

```
Connected to an idle instance.
```

```
SQL> startup
```

```
ORACLE instance started.
```

```
Total System Global Area 1653518336 bytes
```

```
Fixed Size 2228904 bytes
```

```
Variable Size 1157631320 bytes
```

```
Database Buffers 486539264 bytes
```

```
Redo Buffers 7118848 bytes
```

```
Database mounted.
```

```
ORA-01157: cannot identify/lock data file 5 - see DBWR trace file
```

```
ORA-01110: data file 5: '/u01/app/oracle/oradata/DB11G/datafiles/users01'
```

```
SQL> exit
```

```
Disconnected from Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production
```

```
With the Partitioning, OLAP, Data Mining and Real Application Testing options
```

```
[oracle@ol6-ag-rac1 oradata]$ █
```

```
[oracle@ol6-ag-rac1 ~]$ rman target sys
```

```
Recovery Manager: Release 11.2.0.3.0 - Production on Mon Jan 16 23:25:41 2017
```

```
Copyright (c) 1982, 2011, Oracle and/or its affiliates. All rights reserved.
```

```
target database Password:
```

```
connected to target database: DB11G (DBID=400243355, not open)
```

```
RMAN> █
```

```
[oracle@ol6-ag-rac1 ~]$ rman target sys
```

```
Recovery Manager: Release 11.2.0.3.0 - Production on Mon Jan 16 23:25:41 2017
```

```
Copyright (c) 1982, 2011, Oracle and/or its affiliates. All rights reserved.
```

```
target database Password:
```

```
connected to target database: DB11G (DBID=400243355, not open)
```

```
RMAN> sql "alter database datafile 5 offline";
```

```
using target database control file instead of recovery catalog  
sql statement: alter database datafile 5 offline
```

```
RMAN> alter database open;
```

```
database opened
```

```
RMAN> █
```

```
[oracle@ol6-ag-rac1 oradata]$ sqlplus scott@DB11G
```

```
SQL*Plus: Release 11.2.0.3.0 Production on Mon Jan 16 23:28:28 2017
```

```
Copyright (c) 1982, 2011, Oracle. All rights reserved.
```

```
Enter password:
```

```
Connected to:
```

```
Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production  
With the Partitioning, OLAP, Data Mining and Real Application Testing options
```

```
SQL> select empno, ename from emp;  
select empno, ename from emp  
*
```

```
ERROR at line 1:
```

```
ORA-00376: file 5 cannot be read at this time
```

```
ORA-01110: data file 5: '/u01/app/oracle/oradata/DB11G/datafiles/users01'
```

```
SQL> █
```

```
RMAN> restore datafile 5;
```

```
Starting restore at 16-JAN-17
```

```
allocated channel: ORA_DISK_1
```

```
channel ORA_DISK_1: SID=46 device type=DISK
```

```
channel ORA_DISK_1: starting datafile backup set restore
```

```
channel ORA_DISK_1: specifying datafile(s) to restore from backup set
```

```
channel ORA_DISK_1: restoring datafile 00005 to /u01/app/oracle/oradata/DB11G/datafiles/users01
```

```
channel ORA_DISK_1: reading from backup piece /u01/app/oracle/fra/DB11G/DB11G/backupset/2017_01_13/o1_mf_nnndf_TAG20170113T021514_d7jbk3qc_.bkp
```

```
channel ORA_DISK_1: piece handle=/u01/app/oracle/fra/DB11G/DB11G/backupset/2017_01_13/o1_mf_nnndf_TAG20170113T021514_d7jbk3qc_.bkp tag=TAG20170113T021514
```

```
channel ORA_DISK_1: restored backup piece 1
```

```
channel ORA_DISK_1: restore complete, elapsed time: 00:00:05
```

```
Finished restore at 16-JAN-17
```

```
RMAN> █
```

```
RMAN> recover datafile 5;
```

```
Starting recover at 16-JAN-17  
using channel ORA_DISK_1
```

```
starting media recovery
```

```
archived log for thread 1 with sequence 6 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_13/o1  
_mf_1_6_d7jbstr2_.arc  
archived log for thread 1 with sequence 7 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_13/o1  
_mf_1_7_d7k6qldp_.arc  
archived log for thread 1 with sequence 8 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_13/o1  
_mf_1_8_d7llxtts_.arc  
archived log for thread 1 with sequence 9 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_13/o1  
_mf_1_9_d7lj2tls_.arc  
archived log for thread 1 with sequence 10 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_14/o  
1_mf_1_10_d7lq1k80_.arc  
archived log for thread 1 with sequence 11 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_14/o  
1_mf_1_11_d7md39j3_.arc  
archived log for thread 1 with sequence 12 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_14/o  
1_mf_1_12_d7mt4qdj_.arc  
archived log for thread 1 with sequence 13 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_14/o  
1_mf_1_13_d7n87jon_.arc  
archived log for thread 1 with sequence 14 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_14/o  
1_mf_1_14_d7np24hd_.arc  
archived log for thread 1 with sequence 15 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_14/o  
1_mf_1_15_d7o4hqhq_.arc  
archived log for thread 1 with sequence 16 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_14/o  
1_mf_1_16_d7o4jb0t_.arc  
archived log for thread 1 with sequence 17 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_15/o  
1_mf_1_17_d7ocdwk7_.arc  
archived log for thread 1 with sequence 18 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_15/o  
1_mf_1_18_d7p0hsh0_.arc  
archived log for thread 1 with sequence 19 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_15/o  
1_mf_1_19_d7pc1d3h_.arc  
archived log for thread 1 with sequence 20 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_15/o  
1_mf_1_20_d7psgs8m_.arc  
archived log for thread 1 with sequence 21 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_15/o
```



```
1_mf_1_21_d7q74kg1_.arc
archived log for thread 1 with sequence 22 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_15/o
1_mf_1_22_d7qrqywj_.arc
archived log for thread 1 with sequence 23 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_15/o
1_mf_1_23_d7qvvk58_.arc
archived log for thread 1 with sequence 24 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_16/o
1_mf_1_24_d7rkbtyn_.arc
archived log for thread 1 with sequence 25 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_16/o
1_mf_1_25_d7s9z97l_.arc
archived log for thread 1 with sequence 26 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_16/o
1_mf_1_26_d7t2mttt_.arc
archived log for thread 1 with sequence 27 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_16/o
1_mf_1_27_d7tbb7n2_.arc
archived log for thread 1 with sequence 28 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_16/o
1_mf_1_28_d7tf4h2q_.arc
archived log for thread 1 with sequence 29 is already on disk as file /u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_16/o
1_mf_1_29_d7tl5qnc_.arc
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_13/o1_mf_1_6_d7jbstr2_.arc thread=1 sequence=6
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_13/o1_mf_1_7_d7k6qldp_.arc thread=1 sequence=7
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_13/o1_mf_1_8_d7l1xtts_.arc thread=1 sequence=8
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_13/o1_mf_1_9_d7lj2tls_.arc thread=1 sequence=9
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_14/o1_mf_1_10_d7lq1k80_.arc thread=1 sequence=10
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_14/o1_mf_1_11_d7md39j3_.arc thread=1 sequence=11
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_14/o1_mf_1_12_d7mt4qdj_.arc thread=1 sequence=12
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_14/o1_mf_1_13_d7n87jon_.arc thread=1 sequence=13
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_14/o1_mf_1_14_d7np24hd_.arc thread=1 sequence=14
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_14/o1_mf_1_15_d7o4hqhq_.arc thread=1 sequence=15
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_14/o1_mf_1_16_d7o4jbt_.arc thread=1 sequence=16
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_15/o1_mf_1_17_d7ocdwk7_.arc thread=1 sequence=17
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_15/o1_mf_1_18_d7p0hsh0_.arc thread=1 sequence=18
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_15/o1_mf_1_19_d7pcl3d3h_.arc thread=1 sequence=19
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_15/o1_mf_1_20_d7psgs8m_.arc thread=1 sequence=20
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_15/o1_mf_1_21_d7q74kg1_.arc thread=1 sequence=21
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_15/o1_mf_1_22_d7qrqywj_.arc thread=1 sequence=22
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_15/o1_mf_1_23_d7qvvk58_.arc thread=1 sequence=23
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_16/o1_mf_1_24_d7rkbtyn_.arc thread=1 sequence=24
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_16/o1_mf_1_25_d7s9z97l_.arc thread=1 sequence=25
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_16/o1_mf_1_26_d7t2mttt_.arc thread=1 sequence=26
```

```
archived log file name=/u01/app/oracle/fra/DB11G/DB11G/archivelog/2017_01_16/01_mf_1_27_d7tbb7n2_.arc thread=1 sequence=27
```

```
media recovery complete, elapsed time: 00:00:39
```

```
Finished recover at 16-JAN-17
```

```
RMAN> █
```

```
RMAN> sql "alter tablespace USERS online";
```

```
sql statement: alter tablespace USERS online
```

```
RMAN> █
```

```
[oracle@ol6-ag-rac1 oradata]$ sqlplus scott@DB11G
```

```
SQL*Plus: Release 11.2.0.3.0 Production on Mon Jan 16 23:42:27 2017
```

```
Copyright (c) 1982, 2011, Oracle. All rights reserved.
```

```
Enter password:
```

```
Connected to:
```

```
Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production  
With the Partitioning, OLAP, Data Mining and Real Application Testing options
```

```
SQL> select empno, ename from emp;
```

```
EMPNO ENAME
```

```
-----  
7369 SMITH  
7499 ALLEN  
7521 WARD  
7566 JONES  
7654 MARTIN  
7698 BLAKE  
7782 CLARK  
7788 SCOTT  
7839 KING  
7844 TURNER  
7876 ADAMS
```

```
EMPNO ENAME
```

```
-----  
7900 JAMES  
7902 FORD  
7934 MILLER  
1111 TOM  
2222 DON
```

```
16 rows selected.
```