DBA_Lab2

1- ensure for setting your environment and then stop your database if it's started

```
[oracle@node1 ~]$ . oraenv
ORACLE_SID = [ITI] ? ITI
The Oracle base has been set to /u01/app/oracle
[oracle@node1 ~]$ ■
```

2- delete spfile and pfile && 3- try to startup your database

```
Loracle@node1 dbs]$ rm -rf sptileITI.ora initITI.ora
[oracle@node1 dbs]$ sqlplus / as sysdba

SQL*Plus: Release 19.0.0.0.0 - Production on Sun Mar 24 04:20:59 2024
Version 19.3.0.0.0

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Connected to an idle instance.

SQL> startup;
QRA-01078: failure in processing system parameters
LRM-00109: could not open parameter file '/u01/app/oracle/product/19c/db_home/dbs/initITI.ora'
SQL> ¶
```

3- do whatever needed action to start your database

```
[oracle@node1 dbs]$ vi initITI.ora
[oracle@node1 dbs]$ sqlplus / as sysdba

SQL*Plus: Release 19.0.0.0.0 - Production on Sun Mar 24 04:41:04 2024

Version 19.3.0.0.0

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Connected to an idle instance.

SQL> startup;
ORACLE instance started.

Total System Global Area 268434280 bytes
Fixed Size 8995336 bytes
Variable Size 201326592 bytes
Database Buffers 50331648 bytes
Redo Buffers 7880704 bytes
ORA-00205: error in identifying control file, check alert log for more info
```

Trying to solve error: ORA-00205 error indicates that Oracle cannot find the control file. To resolve this issue, you should:

- Check the Alert Log:
- Verify Control File Locations:

```
GNA-00205: error in identifying control file, check alort log for more info

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[ sracleghode 1.9] vi alert_III.log

[ cracleghode 1.9] vi alert_IIII.log

[ cracleghode 1.9] vi alert_III.log

[ cracleghode 1.9] vi alert_IIII.log

[ cracleghode 1.9] vi alert_III.log

[ cracleghode 1.9] vi alert_III.l
```

```
SQL> create spfile from pfile;

File created.

SQL> shutdown immediate;
Database closed.
Database dismounted.

ORACLE instance shut down.

SQL> exit

SQL> exit

SQL> startup;
ORACLE instance started.

Total System Global Area 268434280 bytes
Fixed Size 8895336 bytes
Variable Size 201326592 bytes
Database Buffers 50331648 bytes
Redo Buffers 7880704 bytes
Database mounted.
Database opened.
SQL> show parameter spfile;

NAME TYPE VALUE

spfile string /u01/app/oracle/product/19c/db
_home/dbs/spfileITI.ora
```

5-enable archive log

```
SQL> archive log list;
Database log mode
Automatic archival
Archive destination
Oldest online log sequence
SQL> shutdown immediate;
Database closed.
Database dismounted.
ORACLE instance shut down.
SQL> exit

SQL> startup mount;
ORACLE instance started.

Total System Global Area 268434280 bytes
Fixed Size 8895336 bytes
Variable Size 201326592 bytes
Database Buffers 50331648 bytes
Rado Buffers 7880704 bytes
Database mounted.
SQL> alter database archivelog;
Database altered.

SQL> archive log list;
Database log mode Archive Mode
Automatic archival Enabled
Archive destination //u01/app/oracle/product/19c/db_home/dbs/arch
Oldest online log sequence 13
Next log sequence 15
SQL> ■
```

6- check where is the location of archivelog.

```
Automatic archival Enabled
Archive destination /u01/app/oracle/product/19c/db_home/dbs/arch
```

7- add new destination for archivelog on dest_1, make sure it enabled

8- switch online redo log file, and confirm that the new archivelog saved in the new location.

```
SQL> shutdown immediate;
ORA-01109: database not open

Database dismounted.
ORACLE instance shut down.
SQL> startup mount;
ORACLE instance started.

Total System Global Area 268434280 bytes
Fixed Size 8895336 bytes
Variable Size 201326592 bytes
Database Buffers 50331648 bytes
Redo Buffers 7880704 bytes
Database mounted.
SQL> alter database open;
Database altered.

SQL> alter system switch logfile;
System altered.
```

9- Select * from v\$log;

```
SQL> Select * from v$log;
   GROUP#
             THREAD# SEQUENCE#
                                     BYTES BLOCKSIZE
                                                         MEMBERS ARC
                FIRST_CHANGE# FIRST_TIM NEXT_CHANGE# NEXT_TIME
                     16 209715200 512
994385 24-MAR-24 1.8447E+19
                                                512
CURRENT
                             14 209715200
                                                               1 YES
INACTIVE
                       800219 14-MAR-24
                                              988334 24-MAR-24
                                              994385 24-MAR-24
                       15 209715200
988334 24-MAR-24
SQL>
```

10-disable archive log

```
SQL> alter database noarchivelog;
alter database noarchivelog

*

ERROR at line 1:

ORA-01126: database must be mounted in this instance and not open in any instance

SQL> shutdown immediate;
Database closed.
Database dismounted.

ORACLE instance shut down.
SQL> startup mount;
ORACLE instance started.

Total System Global Area 268434280 bytes
Fixed Size 8895336 bytes
Variable Size 201326592 bytes
Database Buffers 50331648 bytes
Redo Buffers 7880704 bytes
Database mounted.
SQL> alter database noarchivelog;
Database altered.
```

11-create new undo tablespace, with one datafile 50MB

```
SQL>
SQL> CREATE UNDO TABLESPACE nada_undo_tablespace
DATAFILE '/u01/app/oracle/oradata/ITI/nada_undo_tablespace.dbf' SIZE 50M;
2
Tablespace created.
```

12-make this new created tablespace the default tablespace

```
SQL> SQL> ALTER SYSTEM SET UNDO_TABLESPACE = 'nada_undo_tablespace';
System altered.

SQL> ^CSELECT name, value FROM V$PARAMETER WHERE name = 'undo_tablespace';
SQL> SQL> SELECT name, value FROM V$PARAMETER WHERE name = 'undo_tablespace';
NAME
```

13-create new tablespace ITI44SA with one datafile with size 50MB and make it the default tablespace for HR user. (create HR user if not exist)

```
SQL> CREATE USER HR IDENTIFIED BY hr;

User created.

SQL>
SQL> CREATE TABLESPACE ITI44SA
DATAFILE '/u01/app/oracle/oradata/ITI/nada_table.dbf' SIZE 50M;
2

Tablespace created.

SQL> SQL> ALTER USER HR DEFAULT TABLESPACE ITI44SA;

User altered.

SQL> GRANT CREATE SESSION TO HR;

Grant succeeded.
```

VALUE

undo_tablespace nada_undo_tablespace

14-create temporary tablespace TEMP2 with size 50MB

```
SQL> CREATE TEMPORARY TABLESPACE TEMP2
TEMPFILE '/u01/app/oracle/oradata/ITI/temp02.dbf' SIZE 50M;
2
Tablespace created.
```

15-add datafile with size 50MB to ITI44SA tablespace.

```
SQL> ALTER TABLESPACE ITI44SA ADD DATAFILE '/u01/app/oracle/oradata/ITI/iti44sa02.dbf'
SIZE 50M;
2
Tablespace altered.
```

16-resize up the datafile of ITI tablespace from 50MB to 100MB.

```
SQL> ALTER DATABASE DATAFILE '/u01/app/oracle/oradata/ITI/nada_table.dbf' RESIZE 100M;
Database altered.
```

17-resize up the tempfile for TEMP2 tablespace to 100MB.

```
SQL>
SQL> ALTER DATABASE TEMPFILE '/u01/app/oracle/oradata/ITI/temp02.dbf' RESIZE 100M;
Database altered.
```

18-make temp2 the default temptablespace tablespace for HR user

```
SQL> ALTER USER HR TEMPORARY TABLESPACE TEMP2;
User altered.
```

```
SQL> SELECT username, temporary_tablespace FROM DBA_USERS WHERE username = 'HR';

USERNAME

TEMPORARY_TABLESPACE

HR
TEMP2
```

19-create big tablespace BIG_SA with datafile 50MB.

```
SQL> CREATE BIGFILE TABLESPACE BIG_SA
DATAFILE '/u01/app/oracle/oradata/ITI/big_sa.dbf' SIZE 50M;
2
Tablespace created.
```

20-add datafile with size 50MB to BIG_SA tablespace.

```
SQL> ALTER TABLESPACE BIG_SA ADD DATAFILE '/u01/app/oracle/oradata/ITI/big_sa.dbf' SIZE 50M;
ALTER TABLESPACE BIG_SA ADD DATAFILE '/u01/app/oracle/oradata/ITI/big_sa.dbf' SIZE 50M
*
ERROR at line 1:
ORA-32771: cannot add file to bigfile tablespace
```

You can RESIZE IT

```
SQL> SQL> ALTER DATABASE DATAFILE '/u01/app/oracle/oradata/ITI/big_sa.dbf' RESIZE 100M;
Database altered.
```

21-make tablespace BIG_SA offline

```
SQL> ALTER TABLESPACE BIG_SA OFFLINE;

Tablespace altered.

SQL> SELECT tablespace_name, status FROM dba_tablespaces WHERE tablespace_name = 'BIG_SA';

TABLESPACE_NAME STATUS

BIG_SA OFFLINE

SQL>
```

22-copy the datafile assigned to BIG_SA to NEW_NAME in operating system level by cp command

```
SQL> exit

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[oracle@node1 ~]$ cp /u01/app/oracle/oradata/ITI/big_sa.dbf /u01/app/oracle/oradata/ITI/new_big_sa.dbf

[oracle@node1 ~]$ ■
```

22-rename the datafile assigned to BIG_SA to the NEW_NAME

```
Connected to:

Connec
```

23- make tablespace BIG_SA online

```
SQL> ALTER TABLESPACE BIG_SA ONLINE;

Tablespace altered.
```

24- check datafiles assigned to BIG_SA from DBA_DATA_FILES

```
SQL> SELECT file_name, tablespace_name, bytes
FROM DBA_DATA_FILES
WHERE tablespace_name = 'BIG_SA';
2  3
FILE_NAME
TABLESPACE_NAME BYTES
/orafra/new_name.dbf
BIG_SA
```