**SESSION 1  Linux Directories, SPFILE/PFILE & Alert Log**

**You use MOBAXTERM tool to open NEW SSH session and connect to your provided VM myvmlab.senecapolytechnic.ca server as user student with your PORT# and Password (these credentials had been sent you in an e-mail).** **PORT# is a 4-digit one mentioned firstly, and Password is for Linux login as user student.**

Last login: Mon Jan 10 18:34:10 2022 from 10.30.2.33

[student@oracledb19c ~]$ **whoami**

student

[student@oracledb19c ~]$ **ls -l**

total 4

-rw-r--r-- 1 root root 733 Jan 6 11:48 readme.txt

[student@oracledb19c ~]$ **cat readme.txt**

1. Switch user with su - oracle and password PSmgi451.

2. Check listener status and start if not running:

check status: lsnrctl status

start listener: lsnrctl start

3. Start database instance:

sqlplus / as sysdba

SQL> startup

4.Change EM port and restart instance

SQL>@setport.sql

5. Display EM port

SQL>select dbms\_xdb\_config.getHttpsPort() from dual;

6. Commands to get information on DB and instance:

select name from v$database;

SELECT INSTANCE\_NAME FROM V$INSTANCE;

select \* from global\_name;

EM interface log in as sysdba : user sys password PSmgi451

The EM web interface requires one of the latest Firefox versions

Before you log out please shutdown the database with the command:

SQL>shutdown immediate

[student@oracledb19c ~]$ **su - oracle**

Password: **PSmgi451**

Last login: Mon Jan 10 18:35:12 EST 2022 on pts/0

The Oracle base remains unchanged with value /opt/oracle/app/oracle

[oracle@oracledb19c ~]$ **whoami**

oracle

[oracle@oracledb19c ~]$ **ls -l**

total 8

-rw-r--r-- 1 oracle dba 394 Jan 29 2021 profile.txt

-rw-r--r-- 1 oracle dba 47 Jan 6 11:48 setport.sql

[oracle@oracledb19c ~]$

**\* This script is setting the Port# for your EM DB Express tool. We will run it later \***

[oracle@oracledb19c ~]$ **cat setport.sql**

**exec dbms\_xdb\_config.sethttpsport(8552);**

quit;

**\* We need to check firstly, whether our LISTENER process is running**

**(and it is running according to the output below).**

**If we get the error called “No Listener”, then we need to start it by lsnrctl start \***

[oracle@oracledb19c ~]$ **lsnrctl status**

LSNRCTL for Linux: Version 19.0.0.0.0 - Production on 17-JAN-2022 13:59:43

Copyright (c) 1991, 2019, Oracle. All rights reserved.

Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=oracledb19c.dcm.senecacollege.ca)(PORT=1521)))

STATUS of the LISTENER

------------------------

Alias LISTENER

Version TNSLSNR for Linux: Version 19.0.0.0.0 - Production

Start Date 10-JAN-2022 18:36:48

Uptime 6 days 19 hr. 22 min. 55 sec

Trace Level off

Security ON: Local OS Authentication

SNMP OFF

Listener Parameter File /opt/oracle/app/oracle/product/19.3.0/dbhome\_1/network/admin/listener.ora

Listener Log File /opt/oracle/app/oracle/diag/tnslsnr/oracledb19c/listener/alert/log.xml

Listening Endpoints Summary...

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=oracledb19c.dcm.senecacollege.ca)(PORT=1521)))

(DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1521)))

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcps)(HOST=oracledb19c.dcm.senecacollege.ca)(PORT=8552))(Security=(my\_wallet\_directory=/opt/oracle/app/oracle/admin/student/xdb\_wallet))(Presentation=HTTP)(Session=RAW))

Services Summary...

**Service "student.dcm.senecacollege.ca" has 1 instance(s).**

**Instance "student", status READY, has 1 handler(s) for this service...**

**Service "studentXDB.dcm.senecacollege.ca" has 1 instance(s).**

**Instance "student", status READY, has 1 handler(s) for this service...**

The command completed successfully

**\* Let’s login to SQL\*PLUS command line tool as super-user SYSDBA \***

[oracle@oracledb19c ~]$ **sqlplus / as sysdba**

SQL\*Plus: Release 19.0.0.0.0 - Production on Mon Jan 17 14:00:06 2022

Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

**Connected to:** ** Our Instance is running (otherwise Idle Instance msg). If that is the case, then you Open your DB by SQL> startup;**

Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

Version 19.3.0.0.0

**\* Let’s assign PORT# to our EM Database Express tool (it will be ONE more than our Linux login Port#) \***

SQL> **exec dbms\_xdb\_config.sethttpsport(8552);**

PL/SQL procedure successfully completed.

SQL> **select instance\_name FROM v$instance;**

INSTANCE\_NAME

----------------

student

SQL> **show parameter spfile**

NAME TYPE VALUE

------------------------------------ ----------- -------------

spfile string **/opt/oracle/app/oracle/product/19.3.0/dbhome\_1/dbs/spfilestudent.ora**

SQL>

SQL> **show parameter target**

NAME TYPE VALUE

------------------------------------ ----------- -------

archive\_lag\_target integer 0

db\_big\_table\_cache\_percent\_target string 0

db\_flashback\_retention\_target integer 1440

fast\_start\_io\_target integer 0

fast\_start\_mttr\_target integer 0

memory\_max\_target big integer 0

**memory\_target big integer 0**

parallel\_servers\_target integer 32

**pga\_aggregate\_target big integer 460M**

**sga\_target big integer 1392M**

target\_pdbs integer 0

SQL>

**\* Instance was opened with SPFILE (just STARTUP command)  SPFILE value is NOT blank above and it uses ASMM. Why? Parameter MEMORY\_TARGET=0, while SGA\_TARGET <>0 and PGA\_AGGREGATE\_TARGET<>0 \***

SQL> **show parameter pool**

NAME TYPE VALUE

------------------------------------ ----------- ----------

buffer\_pool\_keep string

buffer\_pool\_recycle string

java\_pool\_size big integer 0

large\_pool\_size big integer 0

memoptimize\_pool\_size big integer 0

olap\_page\_pool\_size big integer 0

shared\_pool\_reserved\_size big integer 17616076

shared\_pool\_size big integer 0

streams\_pool\_size big integer 0

SQL>

SQL> **show parameter db\_cache**

NAME TYPE VALUE

------------------------------------ ----------- --------

db\_cache\_advice string ON

db\_cache\_size big integer 0

SQL>

SQL> **host**

**\* Let’s see the 3 most important Environment Variables (related to Oracle instance) \***

[oracle@oracledb19c ~]$ **echo $ORACLE\_BASE $ORACLE\_HOME $ORACLE\_SID**

**/opt/oracle/app/oracle /opt/oracle/app/oracle/product/19.3.0/dbhome\_1 student**

[oracle@oracledb19c ~]$

[oracle@oracledb19c ~]$ **cd /opt/oracle/app/oracle**

[oracle@oracledb19c oracle]$ **ls -l**

total 0

drwxr-x--- 3 oracle dba 21 Mar 10 2021 admin

drwxr-x--- 3 oracle dba 21 Mar 10 2021 audit

drwxr-x--- 5 oracle dba 47 Mar 10 2021 cfgtoollogs

drwxr-xr-x 2 oracle dba 6 Mar 10 2021 checkpoints

drwxrwxr-x 23 oracle dba 280 Mar 10 2021 diag

drwxr-x--- 3 oracle dba 21 Mar 10 2021 oradata

drwxr-xr-x 3 oracle dba 20 Mar 10 2021 product

drwxr-x--- 3 oracle dba 21 Mar 10 2021 recovery\_area

[oracle@oracledb19c oracle]$ **cd oradata**

[oracle@oracledb19c oradata]$ **ls -l**

total 0

drwxr-x--- 2 oracle dba 179 Mar 10 2021 STUDENT

[oracle@oracledb19c oradata]$ **cd STUDENT**

oracle@oracledba19c STUDENT]$ **pwd**

**/opt/oracle/app/oracle/oradata/STUDENT**

**\* Here are stored all Database files, Redo Log files and First copy of the Control file \***

[oracle@oracledb19c STUDENT]$ **ls -l**

total 2934200

-rw-r----- 1 oracle dba 10600448 Jan 17 14:07 control01.ctl

-rw-r----- 1 oracle dba 209715712 Jan 16 22:10 redo01.log

-rw-r----- 1 oracle dba 209715712 Jan 17 14:06 redo02.log

-rw-r----- 1 oracle dba 209715712 Jan 16 06:00 redo03.log

-rw-r----- 1 oracle dba 912269312 Jan 17 14:05 sysaux01.dbf

-rw-r----- 1 oracle dba 964698112 Jan 17 14:05 system01.dbf

-rw-r----- 1 oracle dba 137371648 Jan 16 22:10 temp01.dbf

-rw-r----- 1 oracle dba 356524032 Jan 17 14:05 undotbs01.dbf

-rw-r----- 1 oracle dba 5251072 Jan 16 22:15 users01.dbf

[oracle@oracledb19c STUDENT]$

[oracle@oracledb19c STUDENT]$ **cd ../..**

[oracle@oracledb19c oracle]$ **cd admin**

[oracle@oracledb19c admin]$ **ls -l**

total 0

drwxr-x--- 6 oracle dba 64 Mar 10 2021 student

[oracle@oracledb19c admin]$ **cd student**

[oracle@oracledb19c student]$ **ls -l**

total 24

drwxr-x--- 2 oracle dba 20480 Jan 17 14:00 adump

drwxr-x--- 2 oracle dba 20 Mar 10 2021 dpdump

drwxr-x--- 2 oracle dba 36 Mar 10 2021 pfile

drwxr-x--- 2 oracle dba 44 Mar 10 2021 xdb\_wallet

[oracle@oracledb19c student]$ **cd pfile**

[oracle@oracledb19c pfile]$ **pwd**

**/opt/oracle/app/oracle/admin/student/pfile**

 **Here is stored our SEED PFILE**

[oracle@oracledb19c pfile]$ **ls -l**

total 4

-rw-r----- 1 oracle dba 2368 Mar 10 2021 init.ora.2102021101124

[oracle@oracledb19c pfile]$ **cat init\***

##############################################################################

# Copyright (c) 1991, 2013 by Oracle Corporation

##############################################################################

###########################################

# Cache and I/O

###########################################

db\_block\_size=8192

###########################################

# Cursors and Library Cache

###########################################

open\_cursors=300

###########################################

# Database Identification

###########################################

db\_domain="dcm.senecacollege.ca"

db\_name="student"

###########################################

# File Configuration

###########################################

control\_files=("/opt/oracle/app/oracle/oradata/STUDENT/control01.ctl", "/opt/oracle/app/oracle/recovery\_area/STUDENT/control02.ctl")

db\_recovery\_file\_dest="/opt/oracle/app/oracle/recovery\_area"

**db\_recovery\_file\_dest\_size=8256m**

###########################################

# Miscellaneous

###########################################

compatible=19.0.0

diagnostic\_dest=/opt/oracle/app/oracle

###########################################

# NLS

###########################################

nls\_language="AMERICAN"

nls\_territory="AMERICA"

###########################################

# Network Registration

###########################################

local\_listener=LISTENER\_STUDENT

###########################################

# Processes and Sessions

###########################################

processes=320

###########################################

# SGA Memory

###########################################

**sga\_target=1377m**

###########################################

# Security and Auditing

###########################################

audit\_file\_dest="/opt/oracle/app/oracle/admin/student/adump"

audit\_trail=db

remote\_login\_passwordfile=EXCLUSIVE

###########################################

# Shared Server

###########################################

dispatchers="(PROTOCOL=TCP) (SERVICE=studentXDB)"

###########################################

# Sort, Hash Joins, Bitmap Indexes

###########################################

**pga\_aggregate\_target=460m**

###########################################

# System Managed Undo and Rollback Segments

###########################################

undo\_tablespace=UNDOTBS1

**\* We can see that the SEED PFILE is using ASMM (AUTO SHARED MGMT), same as our SPFILE. Why? Parameter MEMORY\_TARGET is not mentioned (by default is 0) and SGA\_TARGET <>0 , also PGA\_AGGREGATE\_TARGET <> 0 \***

**\* Let’s edit this PFILE to lower our targets and to lower the size of Recovery destination.**

**We can use “vi Editor”, then save with :wq \***

[oracle@oracledb19c pfile]$ **vi init\***

[oracle@oracledb19c pfile]$ **ls -l**

total 4

-rw-r----- 1 oracle dba 2369 Jan 17 14:11 init.ora.2102021101124

[oracle@oracledb19c pfile]$ **cp init.ora.2102021101124 init\_student.ora**

[oracle@oracledb19c pfile]$

[oracle@oracledb19c pfile]$ **cat init\_student.ora**

##############################################################################

# Copyright (c) 1991, 2013 by Oracle Corporation

##############################################################################

###########################################

# Cache and I/O

###########################################

db\_block\_size=8192

###########################################

# Cursors and Library Cache

###########################################

open\_cursors=300

###########################################

# Database Identification

###########################################

db\_domain="dcm.senecacollege.ca"

db\_name="student"

###########################################

# File Configuration

###########################################

control\_files=("/opt/oracle/app/oracle/oradata/STUDENT/control01.ctl", "/opt/oracle/app/oracle/recovery\_area/STUDENT/control02.ctl")

db\_recovery\_file\_dest="/opt/oracle/app/oracle/recovery\_area"

**db\_recovery\_file\_dest\_size=4096m**

###########################################

# Miscellaneous

###########################################

compatible=19.0.0

diagnostic\_dest=/opt/oracle/app/oracle

###########################################

# NLS

###########################################

nls\_language="AMERICAN"

nls\_territory="AMERICA"

###########################################

# Network Registration

###########################################

local\_listener=LISTENER\_STUDENT

###########################################

# Processes and Sessions

###########################################

processes=320

###########################################

# SGA Memory

###########################################

**sga\_target=1200m**

###########################################

# Security and Auditing

###########################################

audit\_file\_dest="/opt/oracle/app/oracle/admin/student/adump"

audit\_trail=db

remote\_login\_passwordfile=EXCLUSIVE

###########################################

# Shared Server

###########################################

dispatchers="(PROTOCOL=TCP) (SERVICE=studentXDB)"

###########################################

# Sort, Hash Joins, Bitmap Indexes

###########################################

**pga\_aggregate\_target=200m**

###########################################

# System Managed Undo and Rollback Segments

###########################################

undo\_tablespace=UNDOTBS1

[oracle@oracledb19c pfile]$ **cd /opt/oracle/app/oracle/diag**

[oracle@oracledb19c diag]$ **ls -l**

total 0

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 afdboot

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 apx

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 asm

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 asmcmd

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 asmtool

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 bdsql

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 clients

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 crs

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 diagtool

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 dps

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 em

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 gsm

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 ios

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 kfod

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 lsnrctl

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 netcman

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 ofm

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 plsql

drwxrwxr-x 2 oracle dba 6 Mar 10 2021 plsqlapp

drwxrwxr-x 3 oracle dba 21 Mar 10 2021 rdbms

drwxrwxr-x 3 oracle dba 25 Mar 10 2021 tnslsnr

[oracle@oracledb19c diag]$ **cd rdbms**

[oracle@oracledb19c rdbms]$ **ls -l**

total 0

drwxr-x--- 3 oracle dba 36 Mar 10 2021 student

[oracle@oracledb19c rdbms]$ **cd student**

[oracle@oracledb19c student]$ **ls -l**

total 0

-rw-r----- 1 oracle dba 0 Mar 10 2021 i\_1.mif

drwxr-x--- 16 oracle dba 199 Mar 10 2021 student

[oracle@oracledb19c student]$ **cd student**

[oracle@oracledb19c student]$ **ls -l**

total 60

drwxr-x--- 2 oracle dba 21 Mar 10 2021 alert

drwxr-x--- 2 oracle dba 6 Mar 10 2021 cdump

drwxr-x--- 2 oracle dba 6 Mar 10 2021 hm

drwxr-x--- 2 oracle dba 6 Mar 10 2021 incident

drwxr-x--- 2 oracle dba 6 Mar 10 2021 incpkg

drwxr-x--- 2 oracle dba 6 Mar 10 2021 ir

drwxr-x--- 2 oracle dba 4096 Mar 10 2021 lck

drwxr-x--- 8 oracle dba 103 Mar 10 2021 log

drwxr-x--- 2 oracle dba 4096 Mar 10 2021 metadata

drwxr-x--- 2 oracle dba 6 Mar 10 2021 metadata\_dgif

drwxr-x--- 2 oracle dba 6 Mar 10 2021 metadata\_pv

drwxr-x--- 2 oracle dba 6 Mar 10 2021 stage

drwxr-x--- 2 oracle dba 6 Mar 10 2021 sweep

drwxr-x--- 2 oracle dba 36864 Jan 17 13:54 trace

[oracle@oracledb19c student]$

[oracle@oracledb19c student]$ **cd trace**

[oracle@oracledb19c trace]$ **pwd**

**/opt/oracle/app/oracle/diag/rdbms/student/student/trace**

**\* This is the folder where our ALERT LOG FILE sits. \***

[oracle@oracledb19c trace]$ **ls -l al\***

-rw-r----- 1 oracle dba 190280 Jan 17 14:00 alert\_student.log

**\* Let’s see the LAST 50 lines from our Alert Log or “Database Diary” \***

[oracle@oracledb19c trace]$ **tail -50 alert\_student.log**

2022-01-15T22:14:20.699549-05:00

Resize operation completed for file# 3, old size 808960K, new size 819200K

2022-01-16T02:00:00.180217-05:00

Closing scheduler window

Closing Resource Manager plan via scheduler window

Clearing Resource Manager plan via parameter

2022-01-16T05:56:06.029775-05:00

Resize operation completed for file# 3, old size 819200K, new size 829440K

2022-01-16T06:00:00.103995-05:00

Setting Resource Manager plan SCHEDULER[0x4D58]:DEFAULT\_MAINTENANCE\_PLAN via scheduler window

Setting Resource Manager plan DEFAULT\_MAINTENANCE\_PLAN via parameter

2022-01-16T06:00:02.397222-05:00

Begin automatic SQL Tuning Advisor run for special tuning task "SYS\_AUTO\_SQL\_TUNING\_TASK"

End automatic SQL Tuning Advisor run for special tuning task "SYS\_AUTO\_SQL\_TUNING\_TASK"

2022-01-16T06:00:08.272647-05:00

TABLE SYS.WRI$\_OPTSTAT\_HISTHEAD\_HISTORY: ADDED INTERVAL PARTITION SYS\_P561 (44576) VALUES LESS THAN (TO\_DATE(' 2022-01-17 00:00:00', 'SYYYY-MM-DD HH24:MI:SS', 'NLS\_CALENDAR=GREGORIAN'))

TABLE SYS.WRI$\_OPTSTAT\_HISTGRM\_HISTORY: ADDED INTERVAL PARTITION SYS\_P564 (44576) VALUES LESS THAN (TO\_DATE(' 2022-01-17 00:00:00', 'SYYYY-MM-DD HH24:MI:SS', 'NLS\_CALENDAR=GREGORIAN'))

2022-01-16T06:00:24.334589-05:00

Thread 1 cannot allocate new log, sequence 13

Private strand flush not complete

Current log# 3 seq# 12 mem# 0: /opt/oracle/app/oracle/oradata/STUDENT/redo03.log

2022-01-16T06:00:27.382242-05:00

Thread 1 advanced to log sequence 13 (LGWR switch)

Current log# 1 seq# 13 mem# 0: /opt/oracle/app/oracle/oradata/STUDENT/redo01.log

2022-01-16T06:01:09.205617-05:00

TABLE SYS.WRP$\_REPORTS: ADDED INTERVAL PARTITION SYS\_P581 (4399) VALUES LESS THAN (TO\_DATE(' 2022-01-17 01:00:00', 'SYYYY-MM-DD HH24:MI:SS', 'NLS\_CALENDAR=GREGORIAN'))

TABLE SYS.WRP$\_REPORTS\_DETAILS: ADDED INTERVAL PARTITION SYS\_P582 (4399) VALUES LESS THAN (TO\_DATE(' 2022-01-17 01:00:00', 'SYYYY-MM-DD HH24:MI:SS', 'NLS\_CALENDAR=GREGORIAN'))

TABLE SYS.WRP$\_REPORTS\_TIME\_BANDS: ADDED INTERVAL PARTITION SYS\_P585 (4398) VALUES LESS THAN (TO\_DATE(' 2022-01-16 01:00:00', 'SYYYY-MM-DD HH24:MI:SS', 'NLS\_CALENDAR=GREGORIAN'))

2022-01-16T10:07:03.690349-05:00

Resize operation completed for file# 3, old size 829440K, new size 839680K

2022-01-16T14:07:59.237487-05:00

Resize operation completed for file# 3, old size 839680K, new size 849920K

2022-01-16T17:08:40.390477-05:00

Resize operation completed for file# 3, old size 849920K, new size 860160K

2022-01-16T22:10:12.230594-05:00

Thread 1 advanced to log sequence 14 (LGWR switch)

Current log# 2 seq# 14 mem# 0: /opt/oracle/app/oracle/oradata/STUDENT/redo02.log

2022-01-16T22:19:51.371545-05:00

Resize operation completed for file# 3, old size 860160K, new size 870400K

2022-01-17T02:00:00.020839-05:00

Closing scheduler window

Closing Resource Manager plan via scheduler window

Clearing Resource Manager plan via parameter

2022-01-17T05:01:22.823716-05:00

Resize operation completed for file# 3, old size 870400K, new size 880640K

2022-01-17T11:02:45.320561-05:00

Resize operation completed for file# 3, old size 880640K, new size 890880K

2022-01-17T14:00:30.686999-05:00

XDB initialized.

[oracle@oracledb19c trace]$ **exit**

exit

**\* Now go to Chrome and run** [**https://myvmlab.senecapolytechnic.ca:8552/em**](https://myvmlab.senecapolytechnic.ca:8552/em) **in order to launch EM DB Express Tool. Use YOUR Port# \***

SQL> **SHUTDOWN IMMEDIATE;**

Database closed.

Database dismounted.

ORACLE instance shut down.

SQL> **EXIT**

Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

Version 19.3.0.0.0

[oracle@oracledb19c ~]$ **pwd**

/home/oracle

[oracle@oracledb19c ~]$ **cd /opt/oracle/app/oracle/admin/student/pfile**

[oracle@oracledb19c pfile]$ **ls -l**

total 4

-rw-r----- 1 oracle dba 2369 Jan 17 14:11 init\_student.ora

**\* We want to open our Instance with PFILE and must enter SQL\*PLUS from this folder (STARTUP PFILE=init\_SID.ora command) \***

[oracle@oracledb19c pfile]$ **sqlplus / as sysdba**

SQL\*Plus: Release 19.0.0.0.0 - Production on Mon Jan 17 14:18:04 2022

Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Connected to an idle instance.

SQL> **startup pfile=init\_student.ora;**

ORACLE instance started.

Total System Global Area 1258290752 bytes

Fixed Size 8896064 bytes

Variable Size 318767104 bytes

Database Buffers 922746880 bytes

Redo Buffers 7880704 bytes

Database mounted.

Database opened.

SQL>

SQL> **show parameter target**

NAME TYPE VALUE

------------------------------------ ----------- ------------

archive\_lag\_target integer 0

db\_big\_table\_cache\_percent\_target string 0

db\_flashback\_retention\_target integer 1440

fast\_start\_io\_target integer 0

fast\_start\_mttr\_target integer 0

memory\_max\_target big integer 0

memory\_target big integer 0

parallel\_servers\_target integer 32

**pga\_aggregate\_target big integer 200M**

**sga\_target big integer 1200M**

target\_pdbs integer 0

SQL>

SQL> **show parameter recovery**

NAME TYPE VALUE

------------------------------------ ----------- --------------

db\_recovery\_file\_dest string /opt/oracle/app/oracle/recovery\_area

**db\_recovery\_file\_dest\_size big integer 4G**

recovery\_parallelism integer 0

remote\_recovery\_file\_dest string

SQL>

SQL> **show parameter spfile**

NAME TYPE VALUE

------------------------------------ ----------- --------------

spfile string

**\* We opened our Instance with PFILE (SPFILE value is blank above) and also we can see 3 changes that we made by editing Seed Pfile \***

SQL> **SHUTDOWN IMMEDIATE;**

Database closed.

Database dismounted.

ORACLE instance shut down.

SQL>

SQL> **EXIT**

Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

Version 19.3.0.0.0

[oracle@oracledb19c pfile]$ **exit**

logout

[student@oracledb19c ~]$ **exit**

logout

────────────────────────────────────────────────────────────────────────────────────────────────────────────────────────

Session stopped

- Press <return> to exit tab

- Press R to restart session

- **Press S to save terminal output to file**