

HOMEWORK 3

Oracle 11g Tablespace, Control File, and Redo File

Part I: Create Tablespaces

1. Create a permanent tablespace with the following name and storage - DATA01 (1MB) locally managed with uniform sized extents. Ensure that every used extent size in the tablespace is a multiple of 100 KB.

```
SQL> CREATE TABLESPACE data01 DATAFILE 'S:\app\sdevagup\oradata\sdevagupDBA\data01.dbf' SIZE 1M EXTENT
MANAGEMENT LOCAL UNIFORM SIZE 100K;
```

Tablespace created.

```
SQL> COLUMN name FORMAT a50
SQL> SET LINESIZE 80
SQL> SET PAGESIZE 999
SQL> SELECT name, bytes, create_bytes FROM v$datafile;
```

NAME	BYTES	CREATE_BYTES
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\SYSTEM01.DBF	723517440	0
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\SYSAUX01.DBF	587202560	0
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\UNDOTBS01.DBF	57671680	0
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\USERS01.DBF	5242880	0
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\EXAMPLE01.DBF	104857600	104857600
S:\APP\SDEVAGUP\ORADATA\LAB454.HOLLYWOOD.DBF	5242880	5242880
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\DATA01.DBF	1048576	1048576

7 rows selected.

2. Create a permanent tablespace with the following name and storage - INDEX02 (2MB) locally managed with uniform sized extents of 40K. Enable automatic extension of 500 KB when more extents are required with a maximum size of 5 MB.

```
SQL> CREATE TABLESPACE index02 DATAFILE 'S:\app\sdevagup\oradata\sdevagupDBA\index02.dbf' SIZE 2M AUTOEXTEND ON
NEXT 500K MAXSIZE 5M
2 EXTENT MANAGEMENT LOCAL UNIFORM SIZE 40K;
```

Tablespace created.

```
SQL> COLUMN name FORMAT a50
SQL> SET LINESIZE 80
SQL> SET PAGESIZE 999
SQL> SELECT name, bytes, create_bytes FROM v$datafile;
```

NAME	BYTES	CREATE_BYTES
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\SYSTEM01.DBF	723517440	0
S:\APP\SDEVGAUP\ORADATA\SDEVAGUPDBA\SYSAUX01.DBF	587202560	0
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\UNDOTBS01.DBF	57671680	0
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\USERS01.DBF	5242880	0
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\EXAMPLE01.DBF	104857600	104857600
S:\APP\SDEVAGUP\ORADATA\LAB454.HOLLYWOOD.DBF	5242880	5242880
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\DATA01.DBF	1048576	1048576
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\INDEX01.DBF	2097152	2097152

8 rows selected.

3. Create a permanent tablespace with the following name and storage – RONLY03 (3MB) for read-only tables with the default storage. DO NOT make the tablespace read only at this time.

```
SQL> CREATE TABLESPACE ronly03 DATAFILE 'S:\app\sdevagup\oradata\sdevagupDBA\ronly03.dbf' SIZE 3M;
```

Tablespace created.

```
SQL> COLUMN name FORMAT a50
```

```
SQL> SET LINESIZE 80
```

```
SQL> SET PAGESIZE 999
```

```
SQL> SELECT name, bytes, create_bytes FROM v$datafile;
```

NAME	BYTES	CREATE_BYTES
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\SYSTEM01.DBF	723517440	0
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\SYSAUX01.DBF	587202560	0
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\UNDOTBS01.DBF	57671680	0
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\USERS01.DBF	5242880	0
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\EXAMPLE01.DBF	104857600	104857600
S:\APP\SDEVAGUP\ORADATA\LAB454.HOLLYWOOD.DBF	5242880	5242880
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\DATA01.DBF	1048576	1048576
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\INDEX01.DBF	2097152	2097152
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\RONLY03.DBF	3145728	3145728

9 rows selected.

4. Display the tablespace information from the data dictionary.

```
SQL> SELECT TABLESPACE_NAME "TABLESPACE",
2  INITIAL_EXTENT "INITIAL_EXT",
3  NEXT_EXTENT "NEXT_EXT",
4  MIN_EXTENTS "MIN_EXT",
5  MAX_EXTENTS "MAX_EXT",
6  PCT_INCREASE
7  FROM DBA_TABLESPACES;
```

TABLESPACE	INITIAL_EXT	NEXT_EXT	MIN_EXT	MAX_EXT
PCT_INCREASE				
SYSTEM	65536	1 2147483645		
SYSAUX	65536	1 2147483645		
UNDOTBS1	65536	1 2147483645		
TEMP 0	1048576	1048576	1	
USERS	65536	1 2147483645		
EXAMPLE	65536	1 2147483645		
HOLLYWOOD	65536	1 2147483645		
DATA01 0	106496	106496	1 2147483645	
INDEX02	40960	40960	1 2147483645	

10 rows selected.

5. Allocate 500K more disk space to tablespace DATA01 and verify the result. (*Hint: Query v\$datafile*)

```
SQL> ALTER DATABASE DATAFILE 'S:\app\sdevagup\oradata\sdevagupDBA\data01.dbf' RESIZE 500K;
```

Database altered.

```
SQL> COLUMN name FORMAT a40
```

```
SQL> SELECT name, bytes, create_bytes FROM v$datafile WHERE name LIKE '%data01%';
```

no rows selected

6. Create a new directory called U4 in C:\. Relocate tablespace INDEX02 to C:\U4. Verify relocation and status of INDEX02.

```
SQL> ALTER TABLESPACE index02 OFFLINE;
```

Tablespace altered.

```
SQL> SELECT name, status FROM v$datafile;
```

NAME	STATUS
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\SYSTEM01 SYSTEM .DBF	
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\SYSAUX01 ONLINE .DBF	
S:\APP\SDEVAGUP\ORADATA\SDEVAUPDBA\UNDOTBS0 ONLINE 1.DBF	
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\USERS01. ONLINE DBF	
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\EXAMPLE0 ONLINE 1.DBF	
S:\APP\SDEVAGUP\ORADATA\LAB454.HOLLYWOOD.D ONLINE BF	
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\DATA01.D ONLINE BF	
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\INDEX01. OFFLINE DBF	
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\RONLY03. ONLINE DBF	

9 rows selected.

```
SQL> HOST move S:\app\sdevagup\oradata\sdevagupDBA\index02.dbf S:\app\sdevagup\oradata\sdevagupDBA\U4\index02.dbf
1 file(s) moved.
```

```
SQL> ALTER TABLESPACE index02 RENAME DATAFILE 'S:\app\sdevagup\oradata\sdevagupDBA\index02.dbf' TO
'S:\app\sdevagup\oradata\sdevagupDBA\U4\index02.dbf';
```

Tablespace altered.

```
SQL> ALTER TABLESPACE index02 ONLINE;
```

Tablespace altered.

SQL> SELECT name, status FROM v\$datafile;

NAME	STATUS
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\SYSTEM01	SYSTEM
.DBF	
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\SYSAUX01	ONLINE
.DBF	
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\UNDOTBS0	ONLINE
1.DBF	
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\USERS01.	ONLINE
DBF	
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\EXAMPLE0	ONLINE
1.DBF	
S:\APP\SDEVAGUP\ORADATA\LAB454.HOLLYWOOD.D	ONLINE
BF	
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\DATA01.D	ONLINE
BF	
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\INDEX01.	ONLINE
DBF	
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\ONLY03.	ONLINE
DBF	

9 rows selected.

7. Create a table with only one column in tablespace ONLY03. Make tablespace ONLY03 read-only. Run a query to verify it.

SQL> CREATE TABLE table1 (x CHAR(1)) TABLESPACE only03;

Table created.

SQL> ALTER TABLESPACE only03 READ ONLY;

Tablespace altered.

8. Attempt to create an additional table TABLE2 with only one column in ONLY03. Drop the first created table, TABLE1. What happens?

SQL> CREATE TABLE table1 (x CHAR(1)) TABLESPACE only03;

Table created.

SQL> SELECT name, enabled, status FROM v\$datafile;

NAME	ENABLED	STATUS
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\SYSTEM01	READ WRITE	SYSTEM
.DBF		
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\SYSAUX01	READ WRITE	ONLINE
.DBF		
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\UNDOTBS0	READ WRITE	ONLINE
1.DBF		

S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\USERS01. READ WRITE ONLINE
DBF

S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\EXAMPLE0 READ WRITE ONLINE
1.DBF

S:\APP\SDEVAGUP\ORADATA\LAB454.HOLLYWOOD.D READ WRITE ONLINE
BF

S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\DATA01.D READ WRITE ONLINE
BF

S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\INDEX01. READ WRITE ONLINE
DBF

S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\RONLY03. READ ONLY ONLINE
DBF

9 rows selected.

SQL> CREATE TABLE table2 (y CHAR(1)) TABLESPACE ronly03;

Table created.

SQL> DROP TABLE table1;

Table dropped.

9. Drop tablespace RONLY03 and the associated datafile. Verify it.

SQL> DROP TABLESPACE ronly03 INCLUDING CONTENTS AND DATAFILES;

Tablespace dropped.

SQL> SELECT * FROM v\$tablespace;

TS#	NAME	INC	BIG	FLA	ENC
0	SYSTEM	YES	NO	YES	
1	SYSAUX	YES	NO	YES	
2	UNDOTBS1	YES	NO	YES	
4	USERS	YES	NO	YES	
3	TEMP	NO	NO	YES	
6	EXAMPLE	YES	NO	YES	
9	HOLLYWOOD	YES	NO	YES	
10	DATA01	YES	NO	YES	
11	INDEX02	YES	NO	YES	

9 rows selected.

10. Let's try to use OMF. Please set DB_CREATE_FILE_DEST to C:\U4 in memory only.

Create tablespace DATA03 size 5M without specifying a file location.

What's the datafile name associate with DATA03 tablespace? .

SQL> ALTER SYSTEM SET DB_CREATE_FILE_DEST='S:\app\sdevagup\oradata\sdevagupDBA\U4' SCOPE=MEMORY;

System altered.

SQL> CREATE TABLESPACE data03 DATAFILE SIZE 5M;

Tablespace created.

SQL> SELECT * FROM v\$tablespace;

TS# NAME	INC BIG FLA ENC
0 SYSTEM	YES NO YES
1 SYSAUX	YES NO YES
2 UNDOTBS1	YES NO YES
4 USERS	YES NO YES
3 TEMP	NO NO YES
6 EXAMPLE	YES NO YES
9 HOLLYWOOD	YES NO YES
10 DATA01	YES NO YES
11 INDEX02	YES NO YES
13 DATA03	YES NO YES

10 rows selected.

Part II: Control Files and Redo Log Files

11. Where is the existing control file located and what is the name?

```
SQL> COL name FORMAT a50
```

```
SQL> SELECT * FROM v$controlfile;
```

STATUS	NAME	IS_BLOCK_SIZE
-----	-----	-----
FILE_SIZE	BLKS	
-----	-----	-----
	S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\CONTROL01.CTL	NO 16384
	594	
	S:\APP\SDEVAGUP\FLASH_RECOVERY_AREA\SDEVAGUPDBA\CONTROL02.CTL	NO 16384
	594	

12. Try to start the database without any control files. Simulate this by changing one of the control file in the parameter file or deleting one of the control file. What happens in the startup? What are the error messages in the Alert log?

```
SQL> delete S:\app\sdevagup\oradata\sdevagupDBA\CONTROL01.CTL
```

```
2 connect sys/goldy as sysdba
```

```
3
```

```
SQL> connect sys/goldy as sysdba
```

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

```
SQL> startup
```

```
ORACLE instance started.
```

```
Total System Global Area 417546240 bytes
```

```
Fixed Size 2176328 bytes
```

```
Variable Size 251660984 bytes
```

```
Database Buffers 155189248 bytes
```

```
Redo Buffers 8519680 bytes
```

```
Database mounted.
```

```
Database opened.
```

13. Restore Control01.CTL from your recycle bin and then restart Oracle.

```
SQL> shutdown immediate
```

```
Database closed.
```

```
Database dismounted.
```

```
ORACLE instance shut down.
```

```
SQL> connect sys/goldy as sysdba
```

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

```
SQL> startup
```

```
ORACLE instance started.
```

```
Total System Global Area 417546240 bytes
```

```
Fixed Size 2176328 bytes
```

```
Variable Size 251660984 bytes
```

```
Database Buffers 155189248 bytes
```

```
Redo Buffers 8519680 bytes
```

```
Database mounted.
```

```
Database opened.
```

14. Multiplex the existing control file as follows.

a). Add a new control file CONTROL04.CTL in C:\U4.

b). Confirm that both control files are being used.

```
SQL> conn sys as sysdba
```

```
Enter password:
```

```
Connected.
```

```
SQL> ALTER SYSTEM SET control_files = 'S:\app\sdevagup\oradata\sdevagupDBA\control01.ctl',
```

```
2 'S:\app\sdevagup\oradata\sdevagupDBA\U4\control04.ctl' SCOPE=SPFILE;
```

```
System altered.
```

```

SQL> shutdown immediate
Database closed.
Database dismounted.
ORACLE instance shut down.
SQL> S:\app\sdevagup\product\11.2.0\dbhome_1\BIN>copy S:\app\sdevagup\oradata\sdevagupDBA\Control01.ctl
S:\app\sdevagup\oradata\sdevagupDBA\U4\Control04.ctl
1 file(s) copied.
SQL> STARTUP
ORACLE instance started.

```

```

Total System Global Area 417546240 bytes
Fixed Size 2176328 bytes
Variable Size 251660984 bytes
Database Buffers 155189248 bytes
Redo Buffers 8519680 bytes
Database mounted.
Database opened.

```

```
SQL> SELECT name FROM v$controlfile;
```

```

NAME
-----
copy S:\app\sdevagup\oradata\sdevagupDBA\CONTROL01.CTL
S:\app\sdevagup\oradata\sdevagupDBA\U4\CONTROL04.CTL

```

15. What is the initial sizing of the data file section in your control file?

```
SQL> select * from v$controlfile_record_section;
```

TYPE	RECORD_SIZE	RECORDS_TOTAL	RECORDS_USED	FIRST_INDEX

LAST_INDEX	LAST_RECID			

DATABASE	316	1	1	0
0 0				
CKPT PROGRESS	8180	11	0	0
0 0				
REDO THREAD	256	8	1	0
0 0				

TYPE	RECORD_SIZE	RECORDS_TOTAL	RECORDS_USED	FIRST_INDEX

LAST_INDEX	LAST_RECID			

REDO LOG	72	16	3	0
0 3				
DATAFILE	520	100	9	0
0 43				
FILENAME	524	2298	13	0
0 0				

TYPE	RECORD_SIZE	RECORDS_TOTAL	RECORDS_USED	FIRST_INDEX

LAST_INDEX	LAST_RECID			

TABLESPACE	68	100	10	0
0 30				
TEMPORARY FILENAME	56	100	2	0
0 15				

RMAN CONFIGURATION	1108	50	0	0
0 0				

TYPE	RECORD_SIZE	RECORDS_TOTAL	RECORDS_USED	FIRST_INDEX
LAST_INDEX	LAST_RECID			

LOG HISTORY	56	292	33	1
33 33				

OFFLINE RANGE	200	163	0	0
0 0				

ARCHIVED LOG	584	28	0	0
0 0				

TYPE	RECORD_SIZE	RECORDS_TOTAL	RECORDS_USED	FIRST_INDEX
LAST_INDEX	LAST_RECID			

BACKUP SET	40	409	0	0
0 0				

BACKUP PIECE	736	200	0	0
0 0				

BACKUP DATAFILE	200	245	0	0
0 0				

TYPE	RECORD_SIZE	RECORDS_TOTAL	RECORDS_USED	FIRST_INDEX
LAST_INDEX	LAST_RECID			

BACKUP REDOLOG	76	215	0	0
0 0				

DATAFILE COPY	736	200	1	1
1 1				

BACKUP CORRUPTION	44	371	0	0
0 0				

TYPE	RECORD_SIZE	RECORDS_TOTAL	RECORDS_USED	FIRST_INDEX
LAST_INDEX	LAST_RECID			

COPY CORRUPTION	40	409	0	0
0 0				

DELETED OBJECT	20	818	1	1
1 1				

PROXY COPY	928	246	0	0
0 0				

TYPE	RECORD_SIZE	RECORDS_TOTAL	RECORDS_USED	FIRST_INDEX
LAST_INDEX	LAST_RECID			

BACKUP SPFILE	124	131	0	0
0 0				

DATABASE INCARNATION	56	292	2	1
2 2				
FLASHBACK LOG	84	2048	0	0
0 0				

TYPE	RECORD_SIZE	RECORDS_TOTAL	RECORDS_USED	FIRST_INDEX
------	-------------	---------------	--------------	-------------

LAST_INDEX	LAST_RECID
------------	------------

RECOVERY DESTINATION	180	1	1	0
0 0				

INSTANCE SPACE RESERVATION	28	1055	1	0
0 0				

REMOVABLE RECOVERY FILES	32	1000	0	0
0 0				

TYPE	RECORD_SIZE	RECORDS_TOTAL	RECORDS_USED	FIRST_INDEX
------	-------------	---------------	--------------	-------------

LAST_INDEX	LAST_RECID
------------	------------

RMAN STATUS	116	141	0	0
0 0				

THREAD INSTANCE NAME MAPPING	80	8	8	0
0 0				

MTTR	100	8	1	0
0 0				

TYPE	RECORD_SIZE	RECORDS_TOTAL	RECORDS_USED	FIRST_INDEX
------	-------------	---------------	--------------	-------------

LAST_INDEX	LAST_RECID
------------	------------

DATAFILE HISTORY	568	57	0	0
0 0				

STANDBY DATABASE MATRIX	400	31	31	0
0 0				

GUARANTEED RESTORE POINT	212	2048	0	0
0 0				

TYPE	RECORD_SIZE	RECORDS_TOTAL	RECORDS_USED	FIRST_INDEX
------	-------------	---------------	--------------	-------------

LAST_INDEX	LAST_RECID
------------	------------

RESTORE POINT	212	2083	0	0
0 0				

DATABASE BLOCK CORRUPTION	80	8384	0	0
0 0				

ACM OPERATION	104	64	6	0
0 0				

TYPE	RECORD_SIZE	RECORDS_TOTAL	RECORDS_USED	FIRST_INDEX
------	-------------	---------------	--------------	-------------

LAST_INDEX	LAST_RECID
------------	------------

FOREIGN ARCHIVED LOG	604	1002	0	0
0 0				

37 rows selected.

16. List the number and location of existing log files and display the number of redo log file groups and members your database has.

SQL> SELECT member FROM v\$logfile;

MEMBER

S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\REDO03.LOG
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\REDO02.LOG
S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\REDO01.LOG

SQL> SELECT group#, members FROM v\$log;

GROUP#	MEMBERS
1	1
3	1
2	1

17. Add a redo log member to each group in your database located on C:\u4, using the following naming conventions:
Add member to Group 1: redo01b.log
Add member to Group 2: redo02b.log
Add member to Group 3: redo03b.log
Verify the result.

SQL> ALTER DATABASE ADD LOGFILE MEMBER

2 'S:\app\sdevagup\oradata\sdevagupDBA\U4\NEWORLD\REDO01B.LOG' to Group 1,
3 'S:\app\sdevagup\oradata\sdevagupDBA\U4\NEWORLD\REDO02B.LOG' to Group 2,
4 'S:\app\sdevagup\oradata\sdevagupDBA\U4\NEWORLD\REDO03B.LOG' to Group 3;

Database altered.

SQL> COLUMN GROUP# FORMAT 99

SQL> COLUMN MEMBER FORMAT a40

SQL> SELECT * FROM v\$logfile;

GROUP#	STATUS	TYPE	MEMBER	IS_
3	ONLINE		S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\REDO03.L NO OG	
2	ONLINE		S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\REDO02.L NO OG	
1	ONLINE		S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\REDO01.L NO OG	
1	INVALID	ONLINE	S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\U4\NEWWO NO RLD\REDO01B.LOG	
2	INVALID	ONLINE	S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\U4\NEWWO NO RLD\REDO02B.LOG	

3 INVALID ONLINE S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\U4\NEWWO NO
RLD\REDO03B.LOG

6 rows selected.

18. Add a new redo log group with two members located on C:\APP\oradata\INST1 and C:\U4 using the following naming conventions and verify the result.

Add Group 4: redo04.log and redo04b.log

```
SQL> ALTER DATABASE ADD LOGFILE GROUP 4  
('S:\app\sdevagup\oradata\sdevagupDBA\U4\NEWWORLD\REDO04.LOG', 'S:\app\sdevagup\oradata\sdevagupDBA\U4\NEWWORLD\REDO04B.LOG') SIZE 9M;
```

Database altered.

```
SQL> COLUMN GROUP# FORMAT 99  
SQL> COLUMN MEMBER FORMAT a40  
SQL> SELECT * FROM v$logfile;
```

GROUP#	STATUS	TYPE	MEMBER	IS_
3	ONLINE		S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\REDO03.L NO OG	
2	ONLINE		S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\REDO02.L NO OG	
1	ONLINE		S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\REDO01.L NO OG	
1	INVALID	ONLINE	S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\U4\NEWWO NO RLD\REDO01B.LOG	

GROUP#	STATUS	TYPE	MEMBER	IS_
2	INVALID	ONLINE	S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\U4\NEWWO NO RLD\REDO02B.LOG	
3	INVALID	ONLINE	S:\APP\SDEVGUP\ORADATA\SDEVAGUPDBA\U4\NEWWO NO RLD\REDO03B.LOG	
4	ONLINE		S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\U4\NEWWO NO RLD\REDO04.LOG	
4	ONLINE		S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\U4\NEWWO NO	

GROUP#	STATUS	TYPE	MEMBER	IS_
			RLD\REDO04B.LOG	

8 rows selected.

```
SQL> SELECT group#, members FROM v$log;
```

GROUP#	MEMBERS
1	2
4	2
3	2
2	2

19. Remove the redo log group created in the previous step.

```
SQL> ALTER SYSTEM SWITCH LOGFILE;
```

System altered.

```
SQL> ALTER SYSTEM SWITCH LOGFILE;
```

System altered.

```
SQL> ALTER SYSTEM SWITCH LOGFILE;
```

System altered.

```
SQL> SELECT group#, members FROM v$log;
```

GROUP#	MEMBERS
--------	---------

1	2
4	2
3	2
2	2

```
SQL> ALTER DATABASE DROP LOGFILE GROUP 4;
```

Database altered.

20. Resize all online redo log files to 5 MB.

```
SQL> ALTER DATABASE ADD LOGFILE  
2 GROUP 5('S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\log05a.rdo',  
3 'S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\log05b.rdo'  
4 ) SIZE 5M,  
5 GROUP 6('S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\log06a.rdo',  
6 'S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\log06b.rdo'  
7 ) SIZE 5M,  
8 GROUP 7('S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\log07a.rdo',  
9 'S:\APP\SDEVAGUP\ORADATA\SDEVAGUPDBA\log07b.rdo'  
10 ) SIZE 5M;
```

Database altered.

```
SQL> ALTER DATABASE DROP LOGFILE GROUP 1;
```

Database altered.

```
SQL> ALTER DATABASE DROP LOGFILE GROUP 2;
```

Database altered.

```
SQL> ALTER DATABASE DROP LOGFILE GROUP 3;
```

Database altered.

```
SQL> SELECT group#, bytes FROM v$log;
```

GROUP#	BYTES
--------	-------

5	5242880
6	5242880
7	5242880

