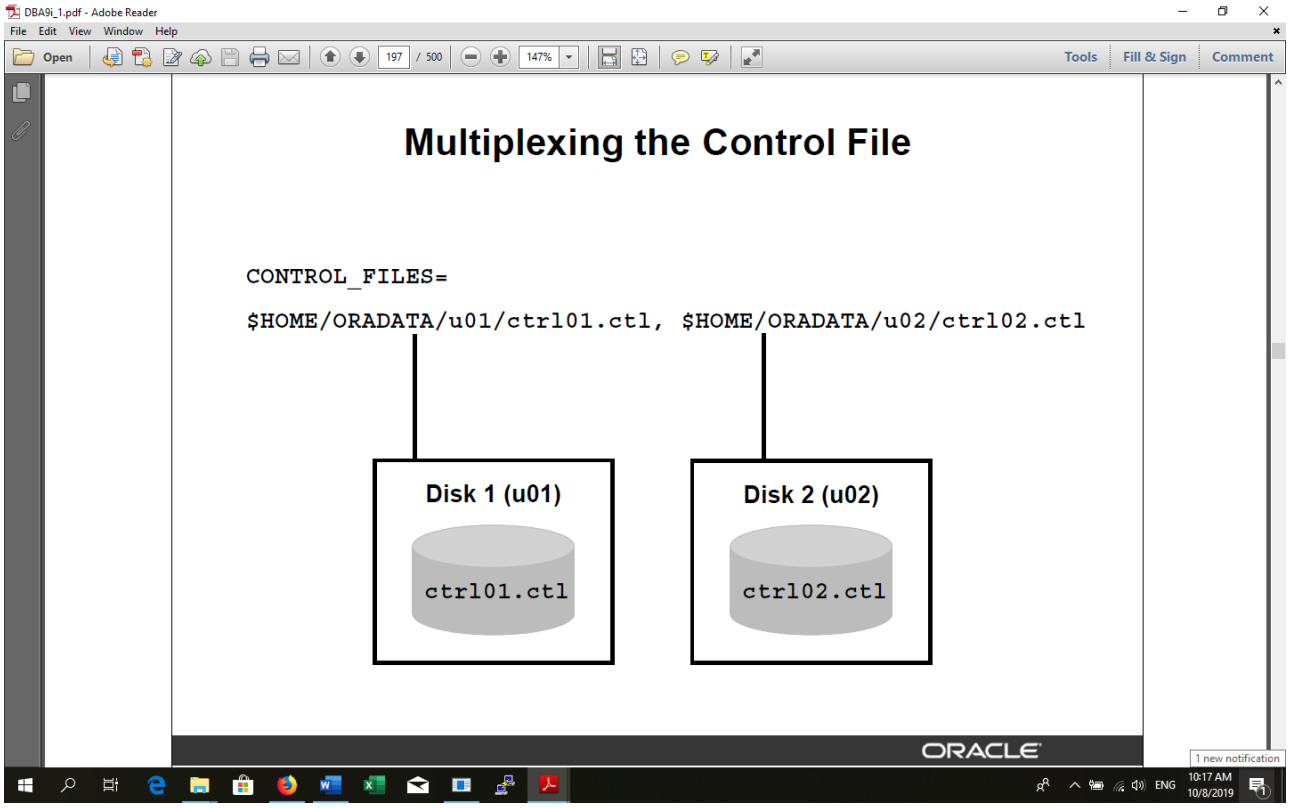
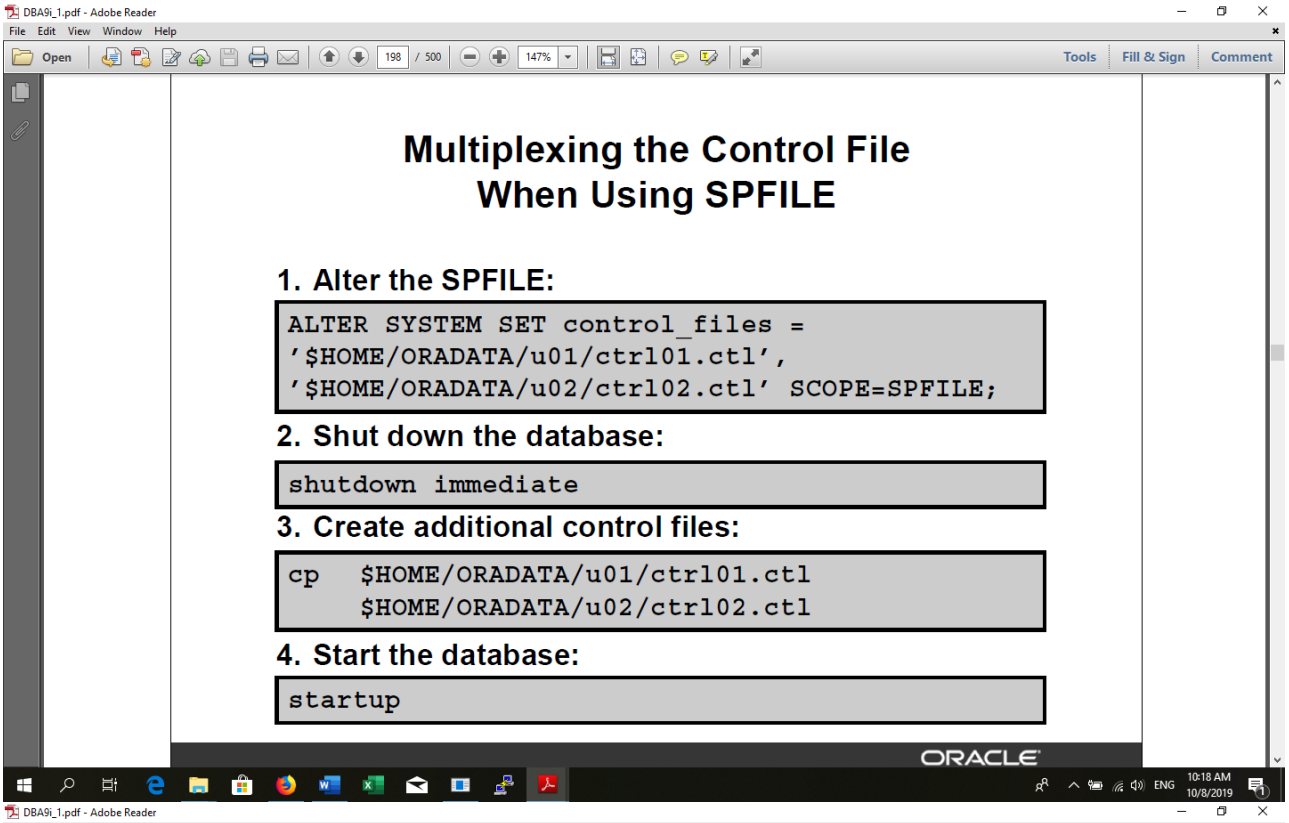
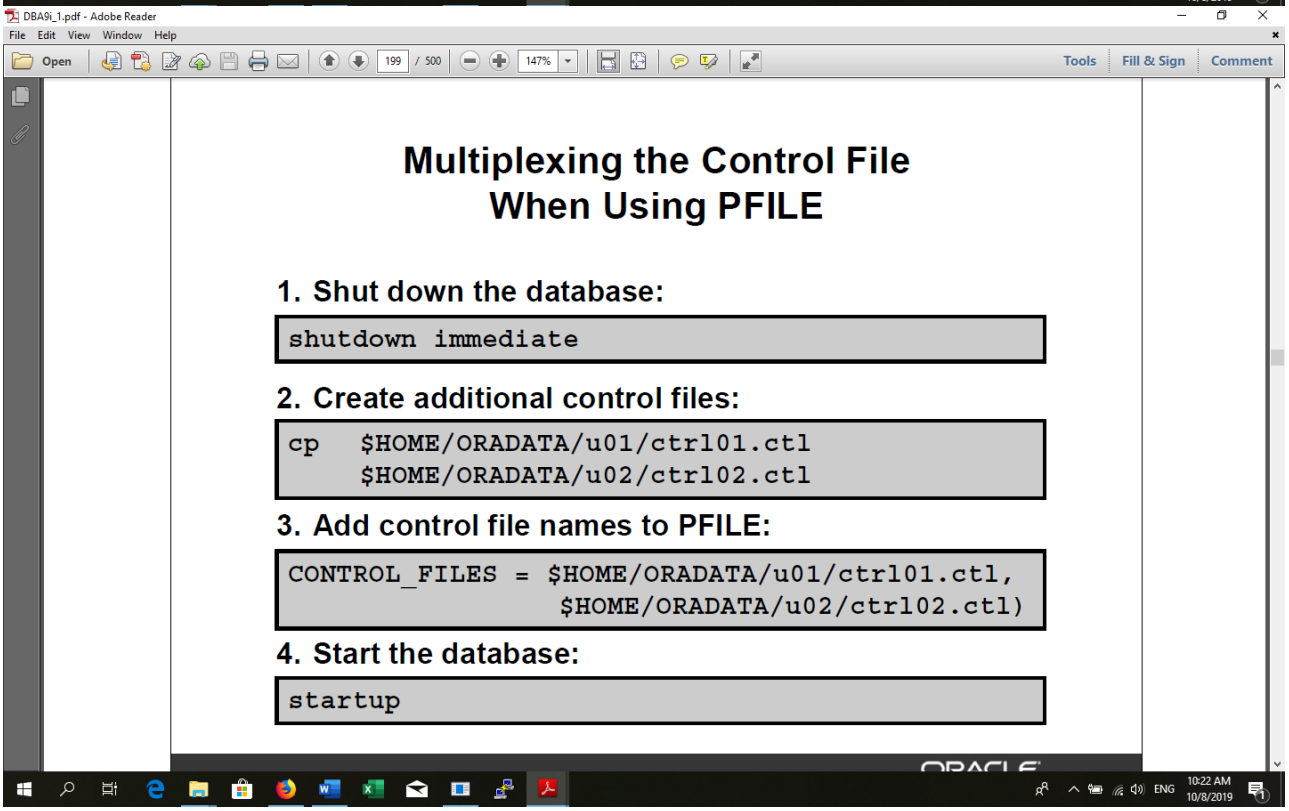
Fisiere de control si fisiere de log

A. Fisiere de control







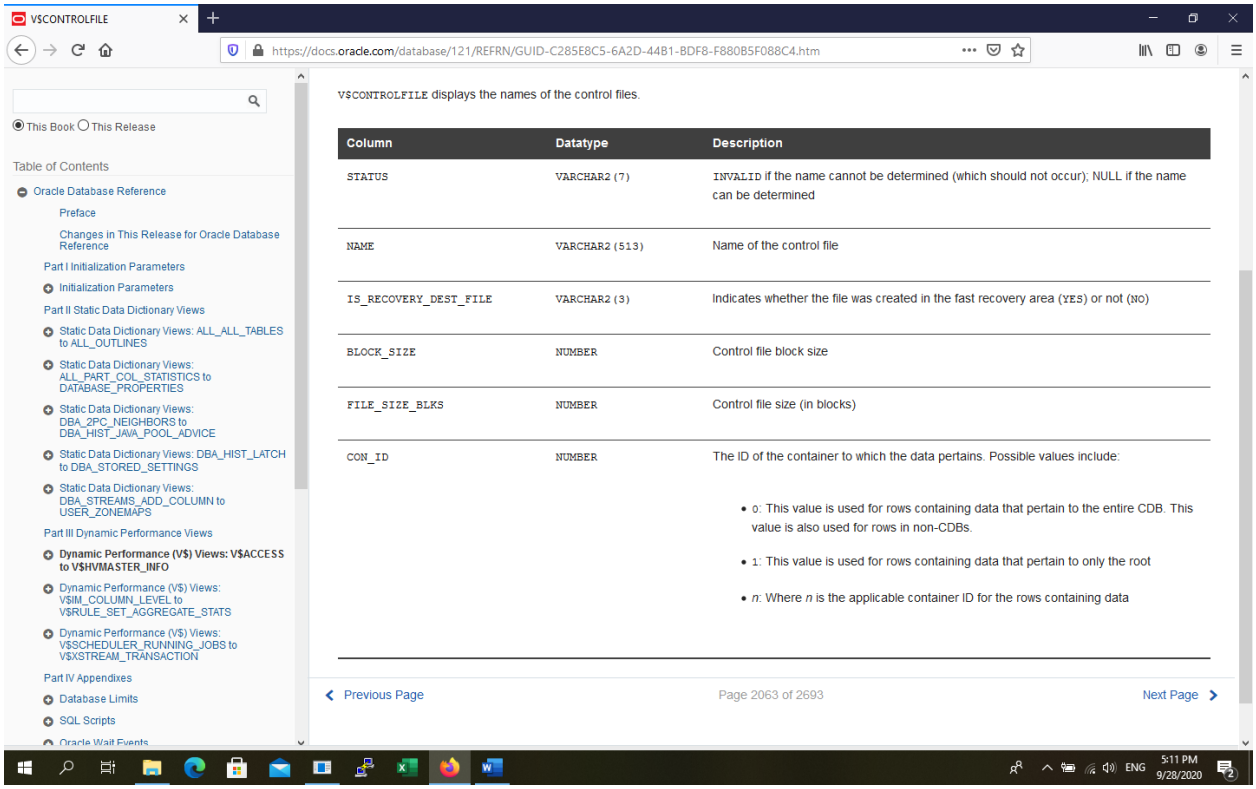
Cateva exemple de view-uri dinamice care extrag informatii din fisierele de control:

• V$BACKUP
• V$DATAFILE
• V$TEMPFILE
• V$TABLESPACE
• V$ARCHIVE
• V$LOG
• V$LOGFILE
• V$LOGHIST
• V$ARCHIVED_LOG
• V$DATABASE

1) Informatii despre fisierele de control extrase din view-uri dinamice:

SQL> desc v$controlfile

Name	Null?	Type
STATUS		VARCHAR2(7)
NAME		VARCHAR2(513)
IS_RECOVERY_DEST_FILE		VARCHAR2(3)
BLOCK_SIZE		NUMBER
FILE_SIZE_BLKS		NUMBER
CON_ID		NUMBER



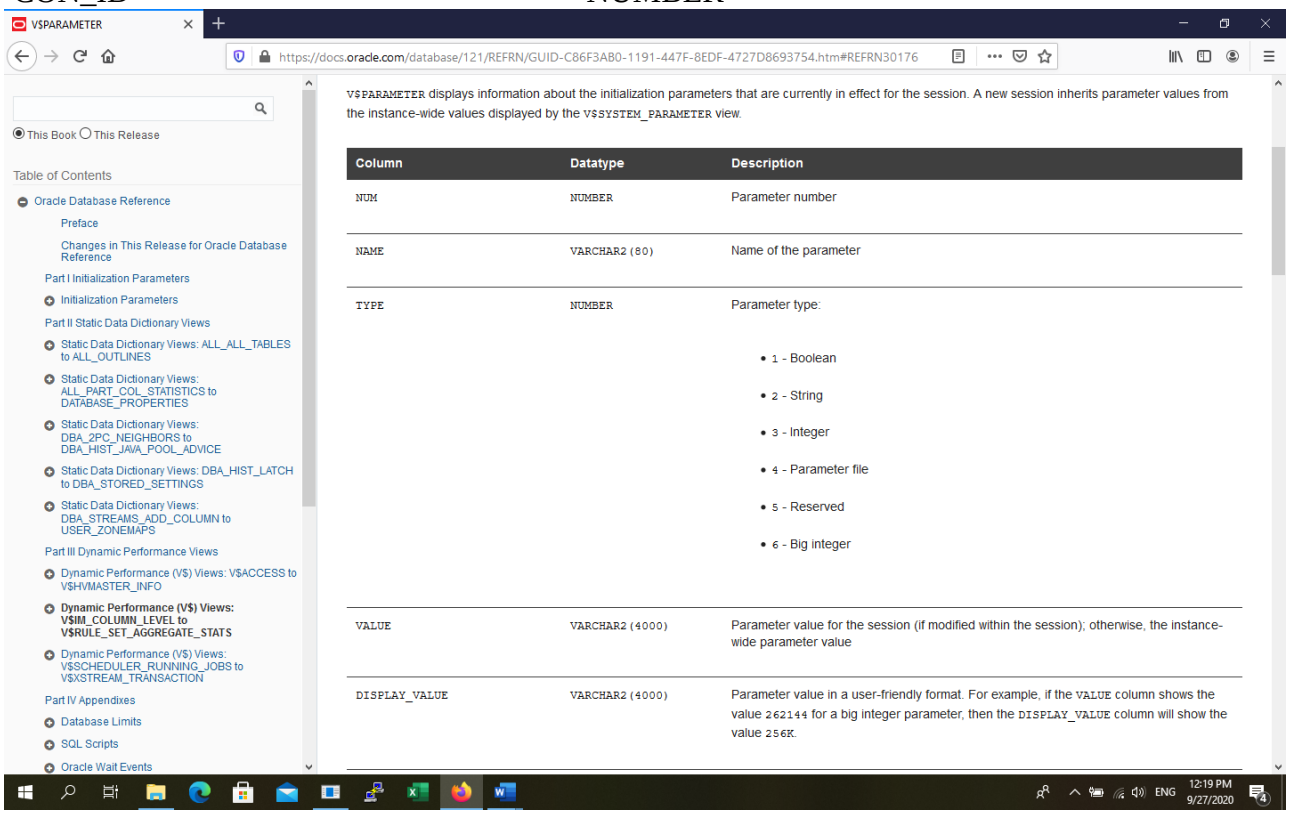
SQL> select name,block_size, file_size_blks from v$controlfile;

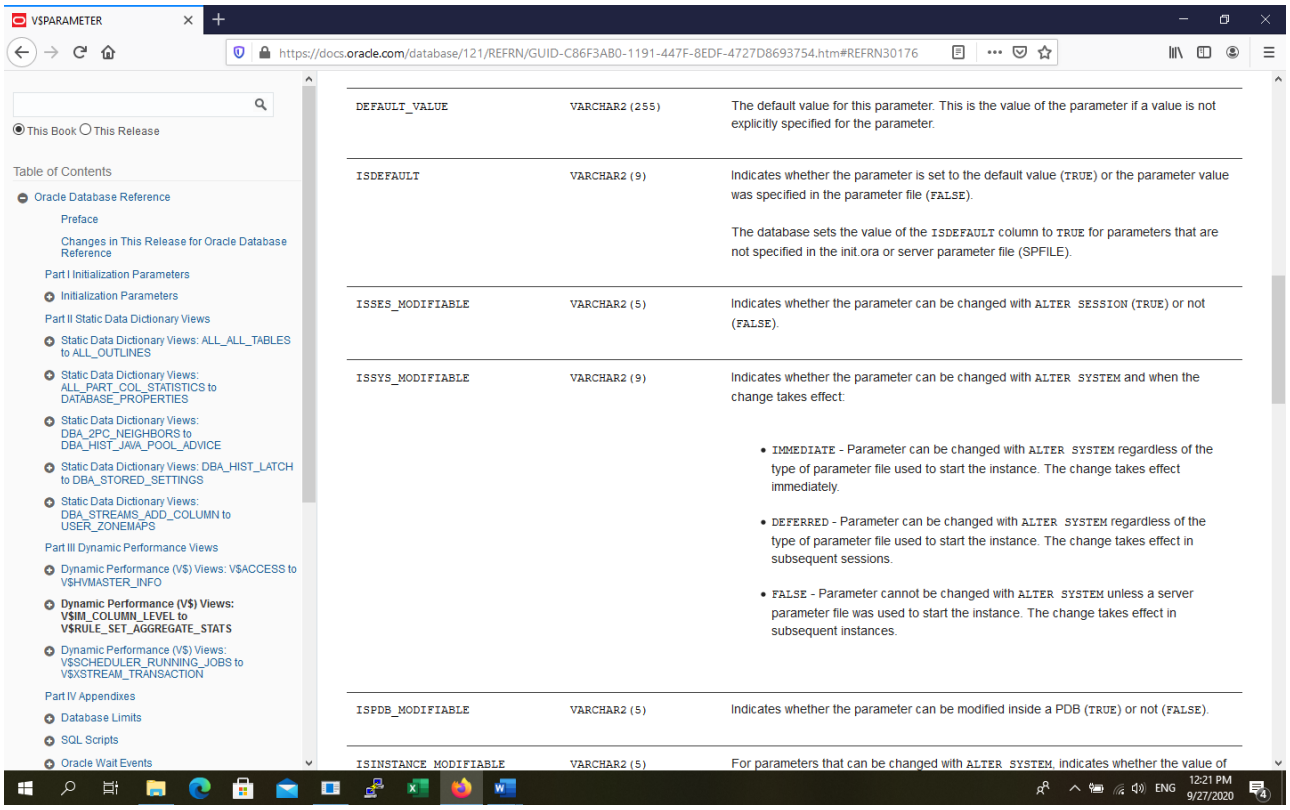
NAME	BLOCK_SIZE	FILE_SIZE_BLKS
C:\ORACLE_12C\ORADATA\BD\CONTROL01.CTL	16384	612
C:\ORACLE_12C\ORADATA\BD\CONTROL02.CTL	16384	612

2) Informatii despre fisierele de control extrase din view-ul pentru parametri:

SQL> desc v$parameter

Name	Null?	Type
NUM		NUMBER
NAME		VARCHAR2(64)
TYPE		NUMBER
VALUE		VARCHAR2(512)
ISDEFAULT		VARCHAR2(9)
ISSES_MODIFIABLE		VARCHAR2(5)
ISSYS_MODIFIABLE		VARCHAR2(9)
ISMODIFIED		VARCHAR2(10)
ISADJUSTED		VARCHAR2(5)
DESCRIPTION		VARCHAR2(64)
UPDATE_COMMENT		VARCHAR2(255)
HASH		NUMBER
CON_ID		NUMBER





SQL> select name, type, value from v$parameter where name='control_files';

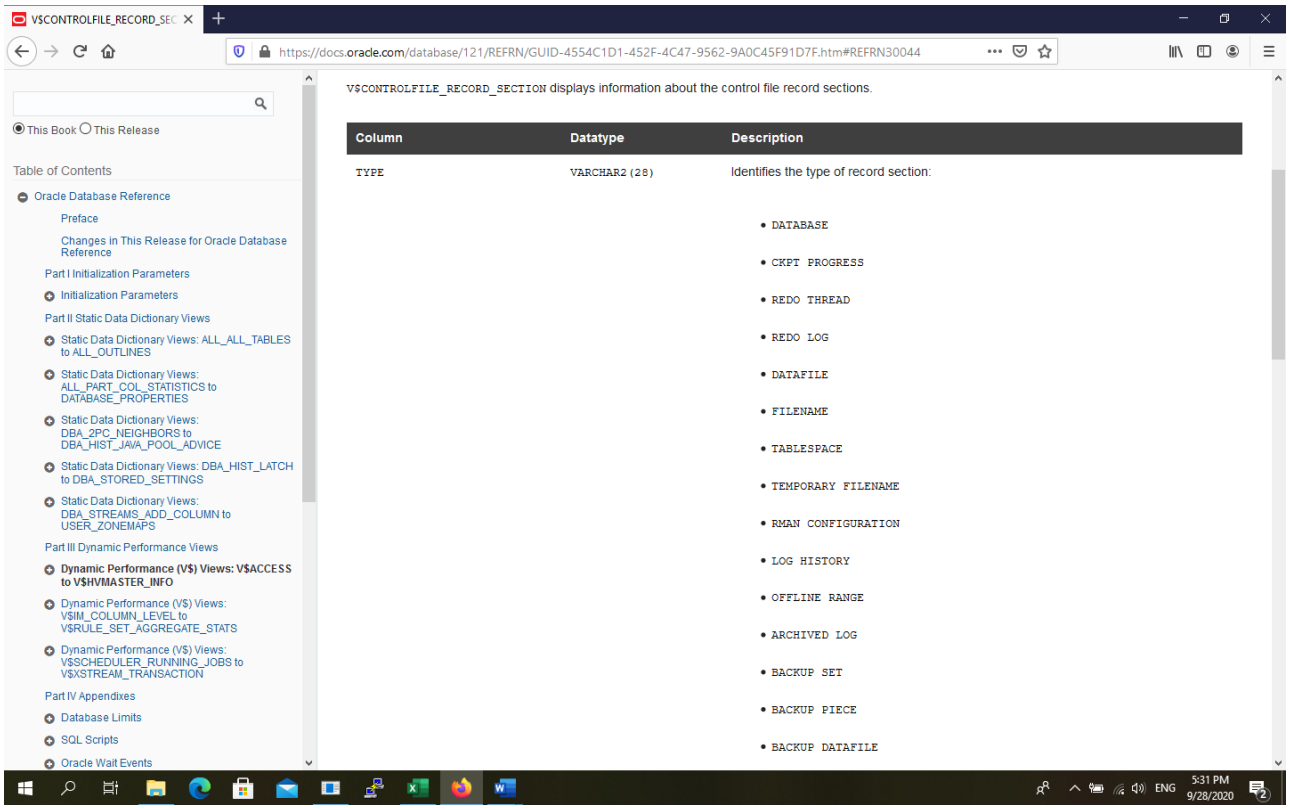
NUM	NAME	TYPE	VALUE
1213	control_files	2	C:\ORACLE_12C\ORADATA\BD\CONTROL01.CTL, C:\ORACLE_12C\ORADATA\BD\CONTROL02.CTL

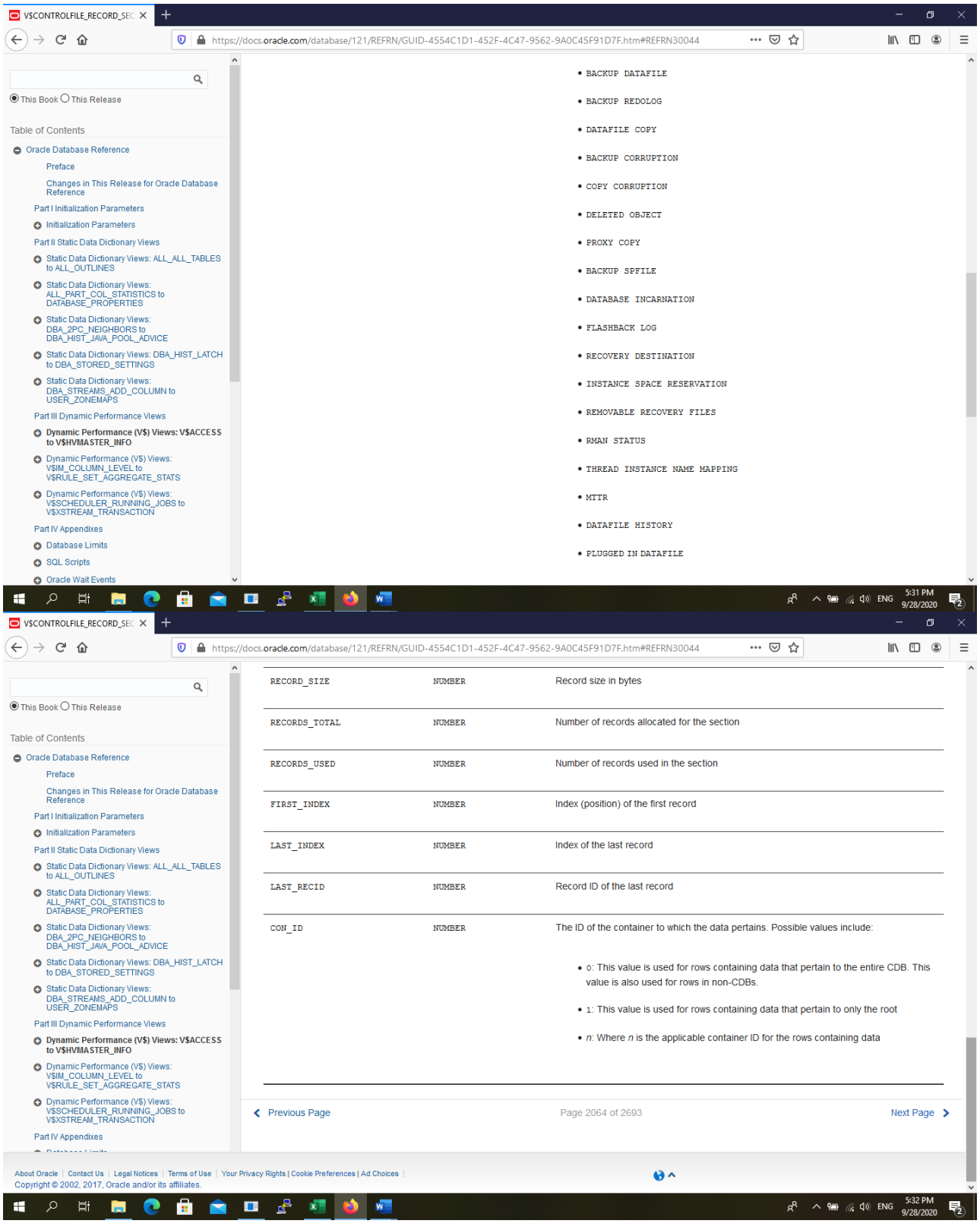
3) Informatii despre dimensiunea inregistrarii, numarul total de inregistrari alocate si cele utilizate referitoare la parametrii de control:

SQL> desc v$controlfile_record_section

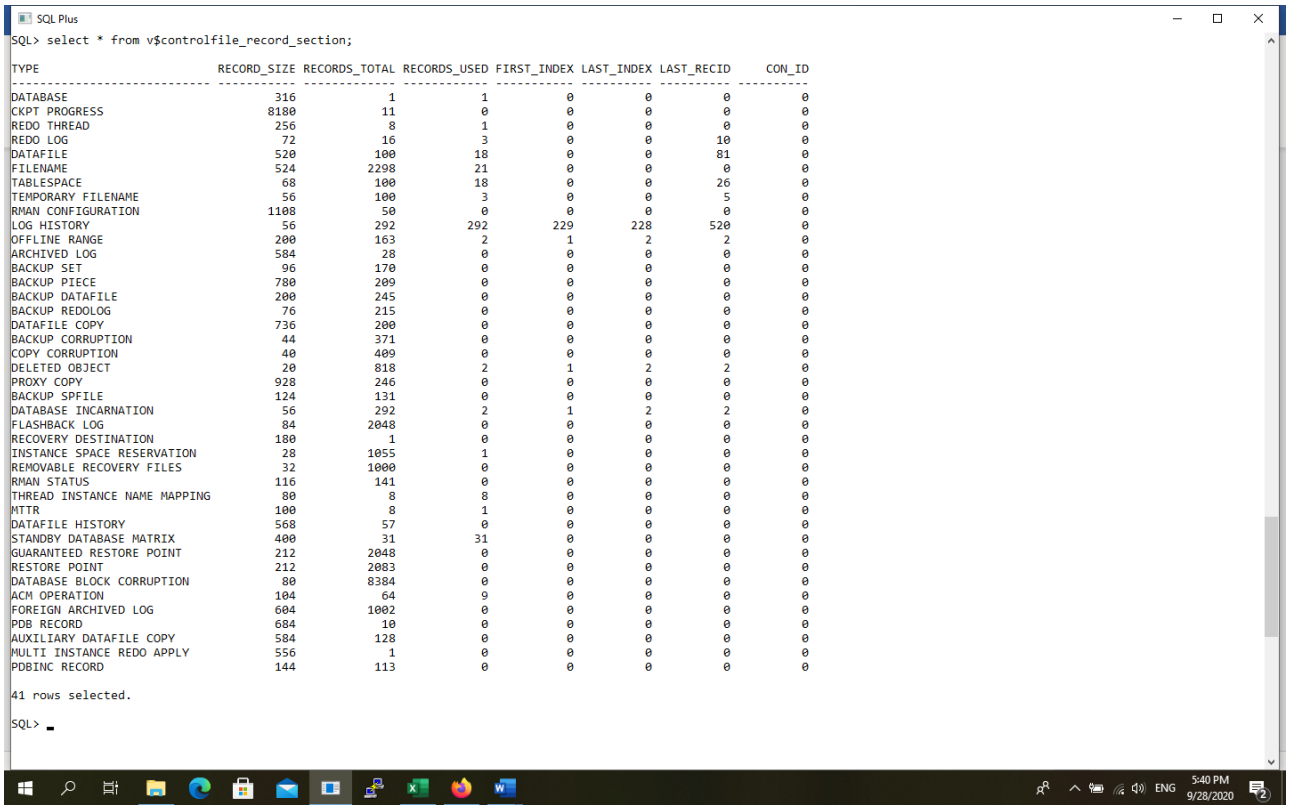
Name	Null?	Type
TYPE		VARCHAR2(20)
RECORD_SIZE		NUMBER
RECORDS_TOTAL		NUMBER
RECORDS_USED		NUMBER

FIRST_INDEX	NUMBER
LAST_INDEX	NUMBER
LAST_RECID	NUMBER
CON_ID	NUMBER





SQL> select * from v$controlfile_record_section;



4) Vizualizare fisiere de control:

SQL> SHOW PARAMETER CONTROL_FILES

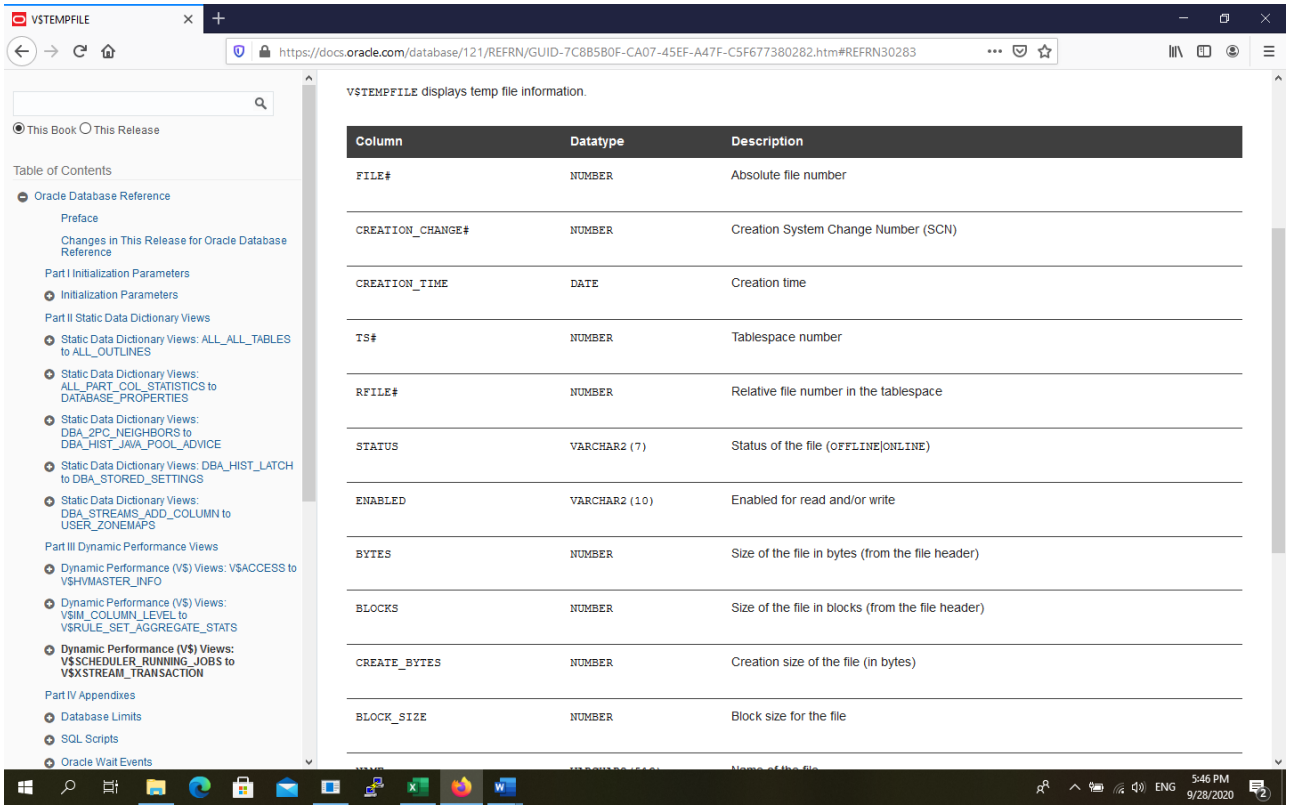
NAME	TYPE	VALUE
control_files	string	C:\ORACLE_12C\ORADATA\BD\CONTROL01.CTL, C:\ORACLE_12C\ORADATA\BD\CONTROL02.CTL

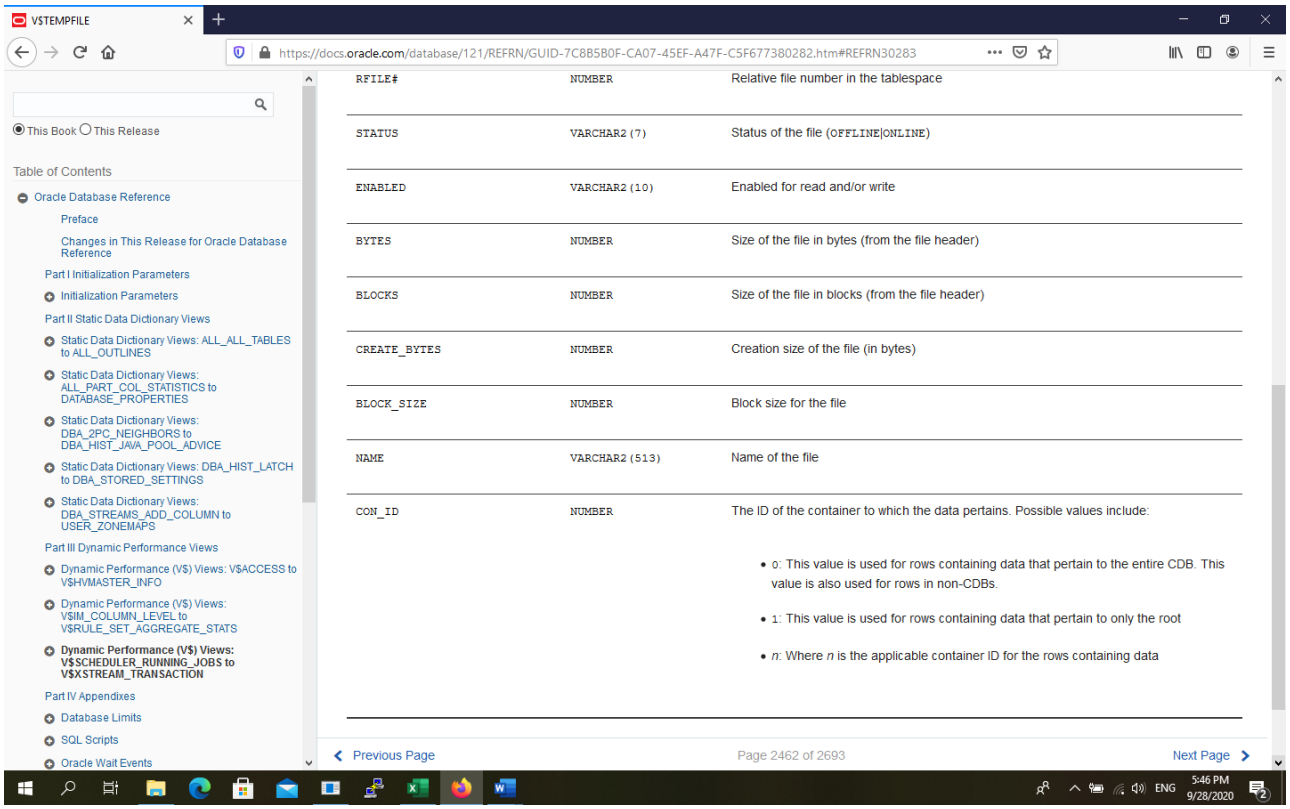
5) Informatii despre fisierele temporare:

SQL> desc v$tempfile

Name	Null?	Type
FILE#		NUMBER
CREATION_CHANGE#		NUMBER
CREATION_TIME		DATE
TS#		NUMBER
RFILE#		NUMBER
STATUS		VARCHAR2(7)
ENABLED		VARCHAR2(10)

BYTES	NUMBER
BLOCKS	NUMBER
CREATE_BYTES	NUMBER
BLOCK_SIZE	NUMBER
NAME	VARCHAR2(513)
CON_ID	NUMBER





SQL> select * from v$tempfile;

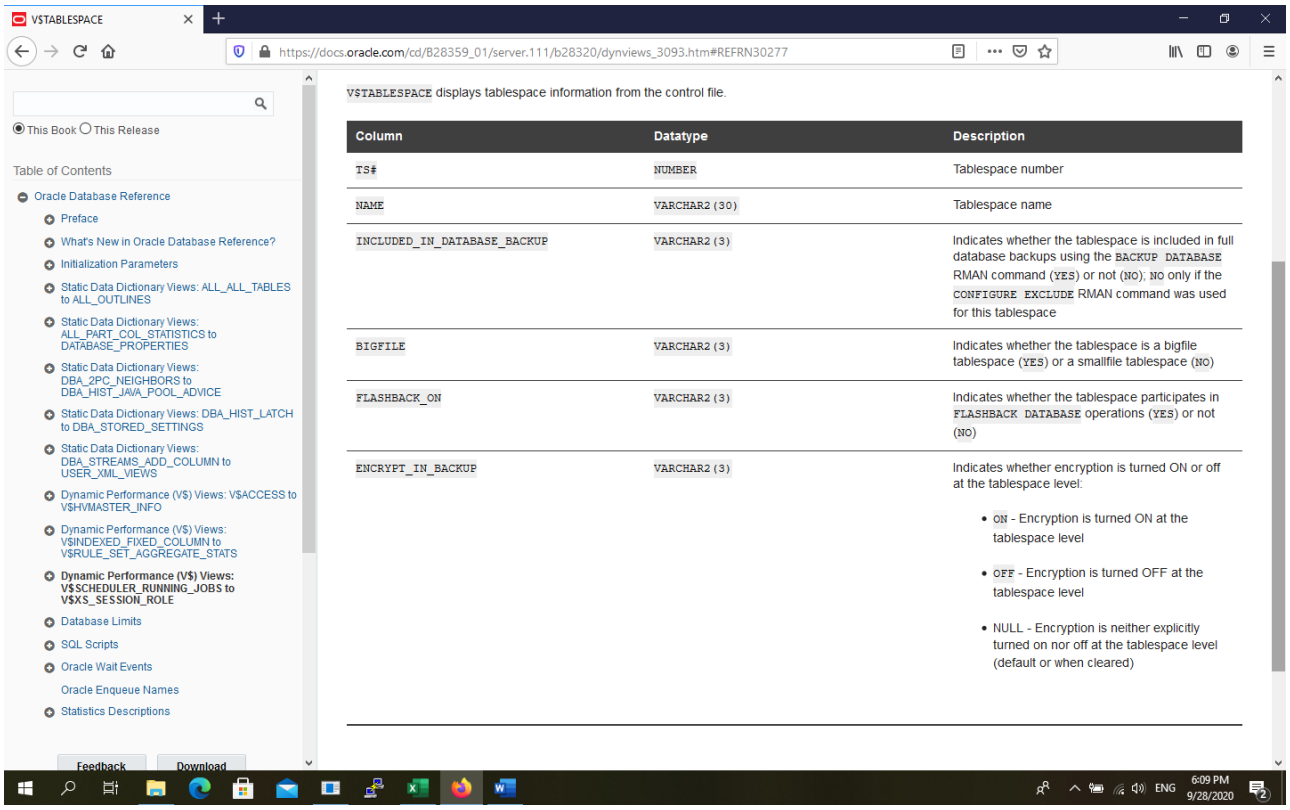
```
    FILE# CREATION_CHANGE# CREATION_       TS#     RFILE# STATUS  ENABLED
BYTES     BLOCKS CREATE_BYTES BLOCK_SIZE NAME                           CON_ID
--------- ---------------- --------- ---------- ---------- ------- ---------- ---------- ---------- ----------- --------
------------------------------ ----------
         1          2233806 08-MAY-19          3          1 ONLINE  READ WRITE   62914560       7680
          62914560       8192    C:\ORACLE_12C\ORADATA\BD\TEMP01.DBF           0

         2          4039792 02-AUG-19          7          1 ONLINE  READ WRITE  104857600      12800
         104857600       8192    C:\ORACLE_12C\ORADATA\BD\BI_IASTEMP.DBF  0

         3          5753558 02-DEC-19         22          1 ONLINE  READ WRITE   10485760       1280
          10485760       8192    C:\ORACLE_12C\ORADATA\BD\BD_TEMP.DBF          0
```

6) Informatii despre tablespace-uri:

SQL> desc v$tablespace

```
 Name                                      Null?    Type
 ----------------------------------------- -------- ----
 TS#                                                NUMBER
 NAME                                               VARCHAR2(30)
 INCLUDED_IN_DATABASE_BACKUP                        VARCHAR2(3)
```

BIGFILE	VARCHAR2(3)
FLASHBACK_ON	VARCHAR2(3)
ENCRYPT_IN_BACKUP	VARCHAR2(3)
CON_ID	NUMBER



V$TABLESPACE

https://docs.oracle.com/cd/B28359_01/server.111/b28320/dynviews_3093.htm#REFRN30277

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Feedback Download

`V$TABLESPACE` displays tablespace information from the control file.

Column	Datatype	Description
`TS#`	`NUMBER`	Tablespace number
`NAME`	`VARCHAR2(30)`	Tablespace name
`INCLUDED_IN_DATABASE_BACKUP`	`VARCHAR2(3)`	Indicates whether the tablespace is included in full database backups using the `BACKUP DATABASE` RMAN command (`YES`) or not (`NO`). `NO` only if the `CONFIGURE EXCLUDE` RMAN command was used for this tablespace
`BIGFILE`	`VARCHAR2(3)`	Indicates whether the tablespace is a bigfile tablespace (`YES`) or a smallfile tablespace (`NO`)
`FLASHBACK_ON`	`VARCHAR2(3)`	Indicates whether the tablespace participates in `FLASHBACK DATABASE` operations (`YES`) or not (`NO`)
`ENCRYPT_IN_BACKUP`	`VARCHAR2(3)`	Indicates whether encryption is turned ON or off at the tablespace level: • `ON` - Encryption is turned ON at the tablespace level • `OFF` - Encryption is turned OFF at the tablespace level • NULL - Encryption is neither explicitly turned on nor off at the tablespace level (default or when cleared)

SQL> select ts#, name, included_in_database_backup from v$tablespace;

TS#	NAME	INC
1	SYSAUX	YES
0	SYSTEM	YES
2	UNDOTBS1	YES
4	USERS	YES
3	TEMP	NO
5	EXAMPLE	YES
6	BI_IAS_OPSS	YES
7	BI_IAS_TEMP	NO
8	BI_IAS_UMS	YES
9	BI_MDS	YES
10	BI_IAU	YES
11	BI_BIPLATFORM	YES
12	BI_WLS	YES
13	BI_STB	YES
20	BD_UNDO	YES

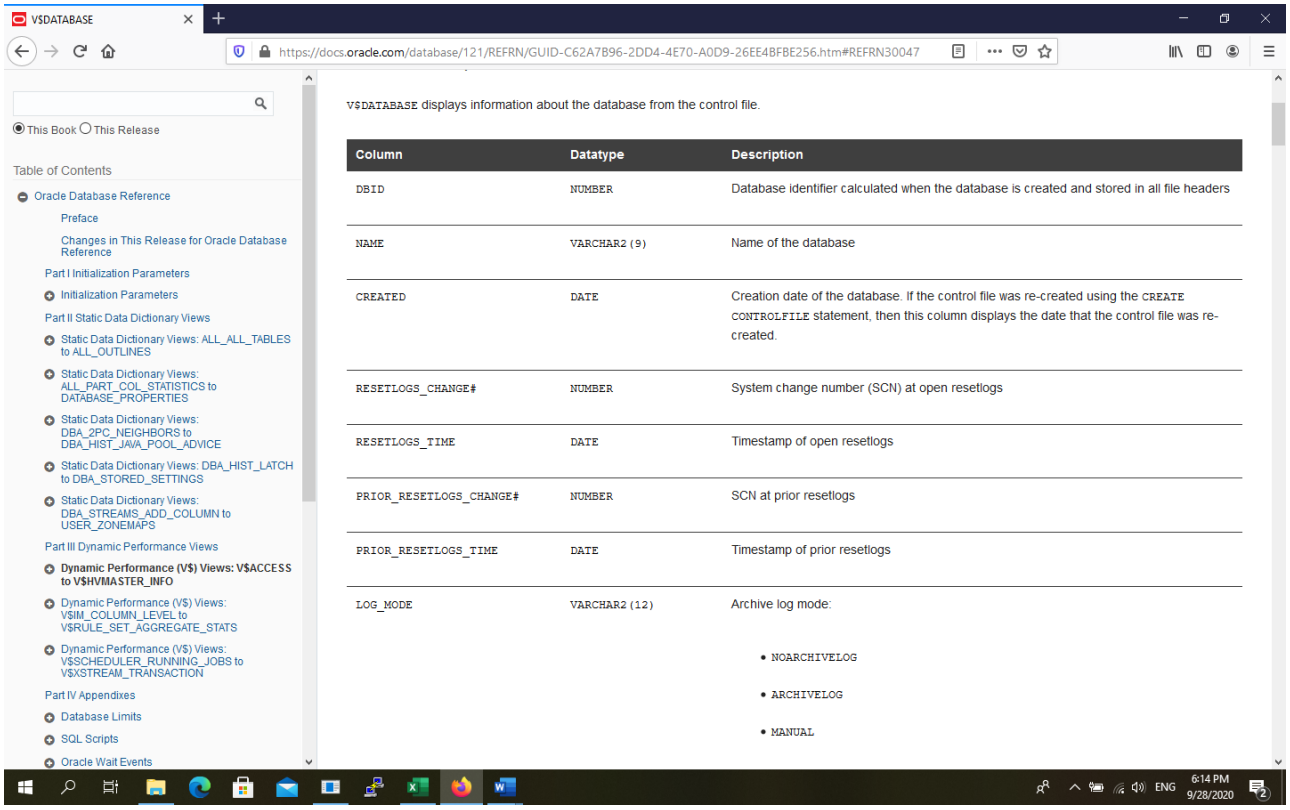
19	UBD_TEMP	NO
21	BD_DATA	YES
22	BD_TEMP	NO

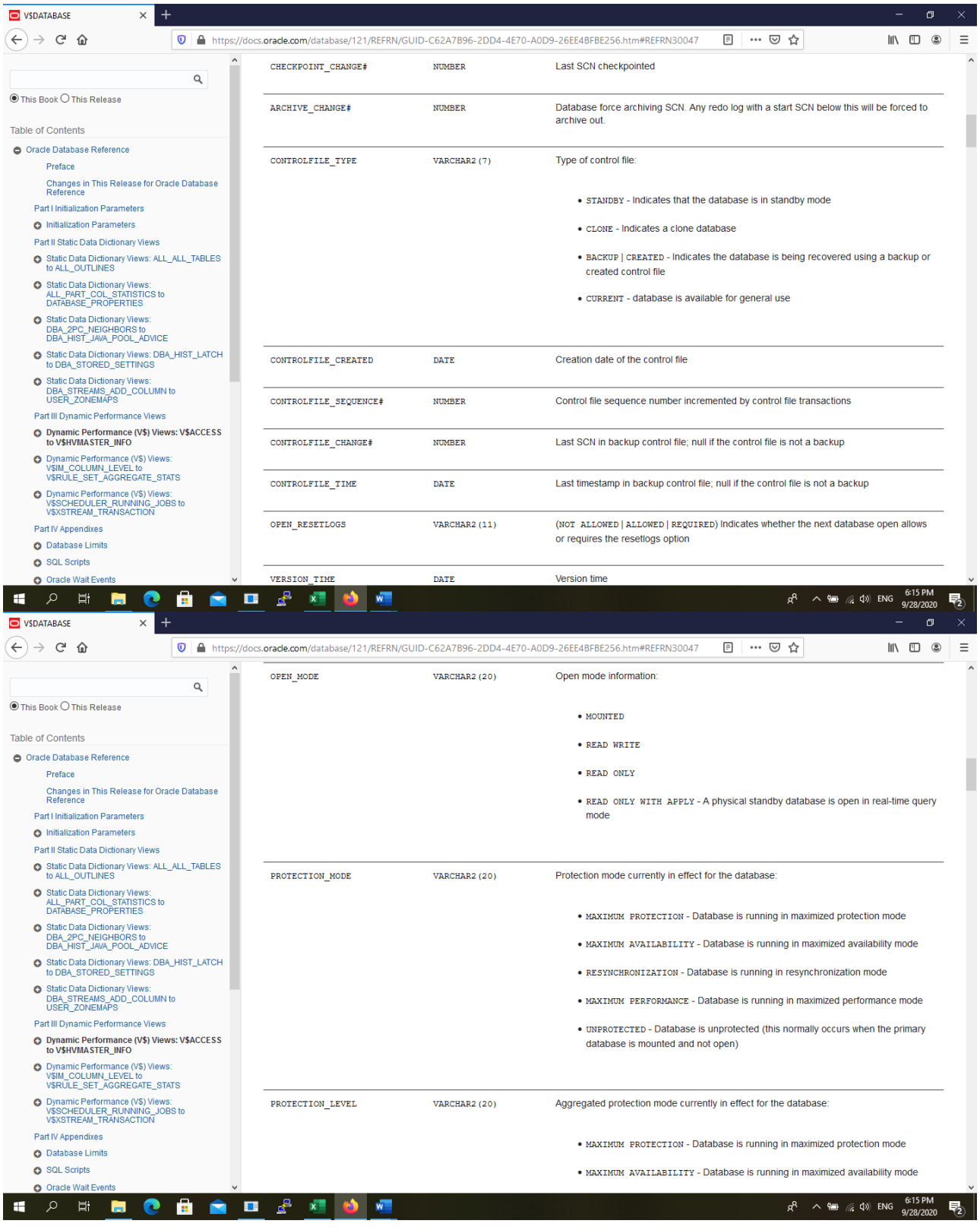
7) Informatii despre baza de date si fisierele de control:

SQL> desc v$database

Name	Null?	Type
DBID		NUMBER
NAME		VARCHAR2(9)
CREATED		DATE
RESETLOGS_CHANGE#		NUMBER
RESETLOGS_TIME		DATE
PRIOR_RESETLOGS_CHANGE#		NUMBER
PRIOR_RESETLOGS_TIME		DATE
LOG_MODE		VARCHAR2(12)
CHECKPOINT_CHANGE#		NUMBER
ARCHIVE_CHANGE#		NUMBER
CONTROLFILE_TYPE		VARCHAR2(7)
CONTROLFILE_CREATED		DATE
CONTROLFILE_SEQUENCE#		NUMBER
CONTROLFILE_CHANGE#		NUMBER
CONTROLFILE_TIME		DATE
OPEN_RESETLOGS		VARCHAR2(11)
VERSION_TIME		DATE
OPEN_MODE		VARCHAR2(20)
PROTECTION_MODE		VARCHAR2(20)
PROTECTION_LEVEL		VARCHAR2(20)
REMOTE_ARCHIVE		VARCHAR2(8)
ACTIVATION#		NUMBER
SWITCHOVER#		NUMBER
DATABASE_ROLE		VARCHAR2(16)
ARCHIVELOG_CHANGE#		NUMBER
ARCHIVELOG_COMPRESSION		VARCHAR2(8)
SWITCHOVER_STATUS		VARCHAR2(20)
DATAGUARD_BROKER		VARCHAR2(8)
GUARD_STATUS		VARCHAR2(7)
SUPPLEMENTAL_LOG_DATA_MIN		VARCHAR2(8)
SUPPLEMENTAL_LOG_DATA_PK		VARCHAR2(3)
SUPPLEMENTAL_LOG_DATA_UI		VARCHAR2(3)
FORCE_LOGGING		VARCHAR2(39)
PLATFORM_ID		NUMBER
PLATFORM_NAME		VARCHAR2(101)

RECOVERY_TARGET_INCARNATION#	NUMBER
LAST_OPEN_INCARNATION#	NUMBER
CURRENT_SCN	NUMBER
FLASHBACK_ON	VARCHAR2(18)
SUPPLEMENTAL_LOG_DATA_FK	VARCHAR2(3)
SUPPLEMENTAL_LOG_DATA_ALL	VARCHAR2(3)
DB_UNIQUE_NAME	VARCHAR2(30)
STANDBY_BECAME_PRIMARY_SCN	NUMBER
FS_FAILOVER_STATUS	VARCHAR2(22)
FS_FAILOVER_CURRENT_TARGET	VARCHAR2(30)
FS_FAILOVER_THRESHOLD	NUMBER
FS_FAILOVER_OBSERVER_PRESENT	VARCHAR2(7)
FS_FAILOVER_OBSERVER_HOST	VARCHAR2(512)
CONTROLFILE_CONVERTED	VARCHAR2(3)
PRIMARY_DB_UNIQUE_NAME	VARCHAR2(30)
SUPPLEMENTAL_LOG_DATA_PL	VARCHAR2(3)
MIN_REQUIRED_CAPTURE_CHANGE#	NUMBER
CDB	VARCHAR2(3)
CON_ID	NUMBER
PENDING_ROLE_CHANGE_TASKS	VARCHAR2(512)
CON_DBID	NUMBER
FORCE_FULL_DB_CACHING	VARCHAR2(3)

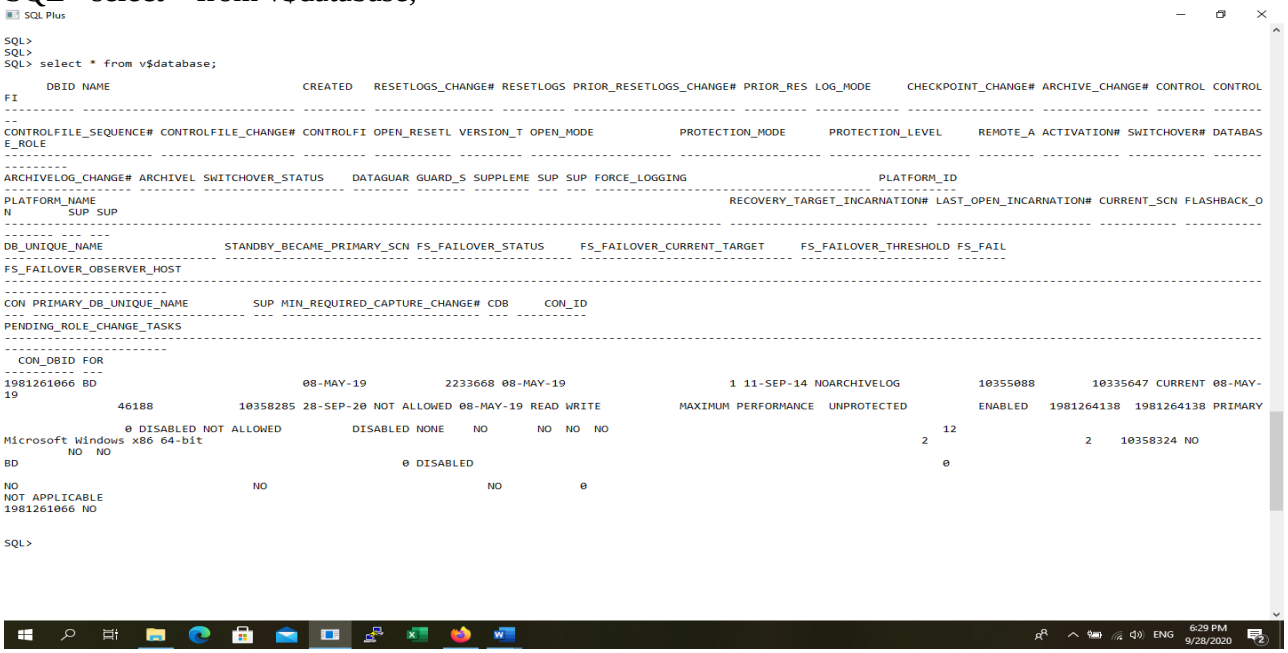




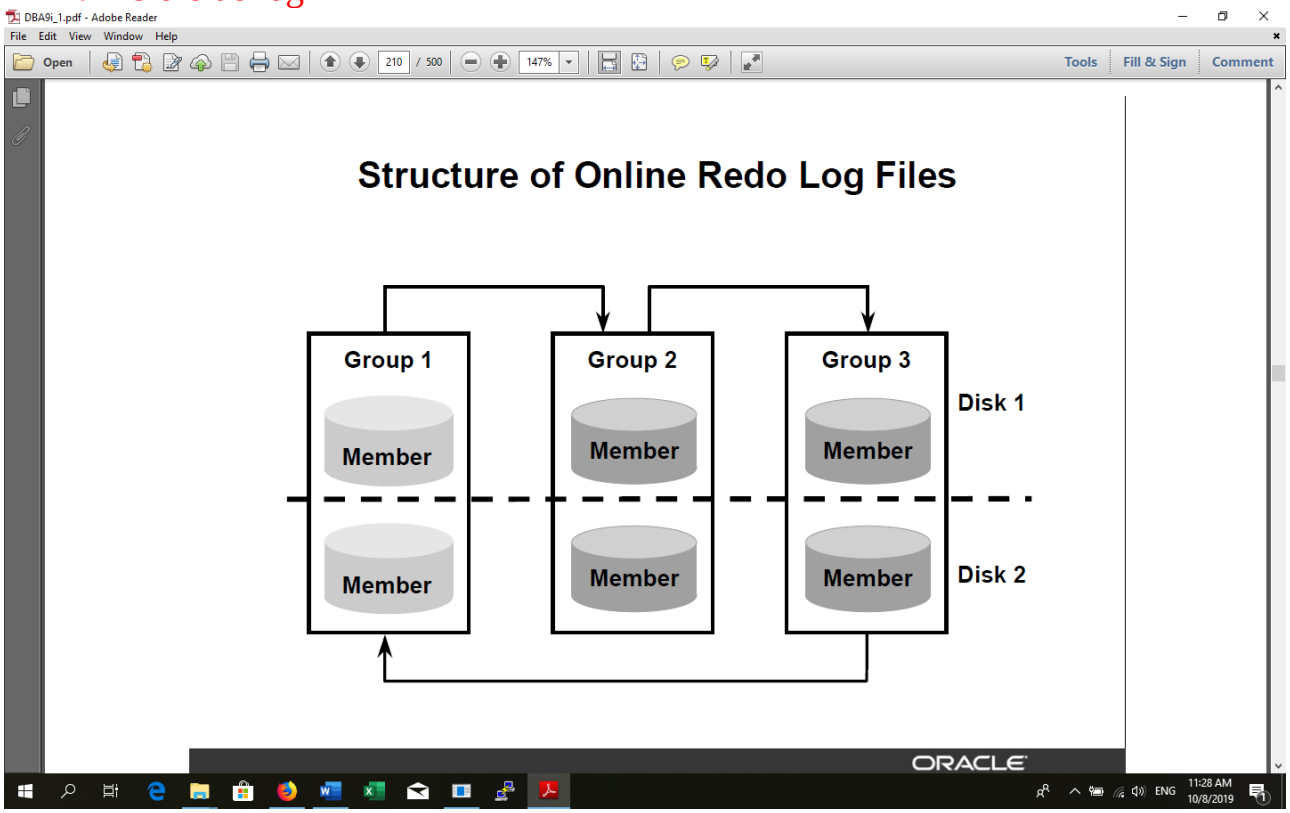
SQL> select controlfile_type, controlfile_sequence#, controlfile_change#, controlfile_time
from v$database;

CONTROL	CONTROLFILE_SEQUENCE#	CONTROLFILE_CHANGE#	CONTROLFI
CURRENT	46189	10358371	28-SEP-20

SQL> select * from v$database;



B. Fisiere de log



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Forcing Log Switches and Checkpoints

- Forcing a log switch:

```
ALTER SYSTEM SWITCH LOGFILE;
```

- Checkpoints can be forced by:
  - Setting `FAST_START_MTTR_TARGET` parameter

```
FAST_START_MTTR_TARGET = 600
```

  - `ALTER SYSTEM CHECKPOINT` command

```
ALTER SYSTEM CHECKPOINT;
```

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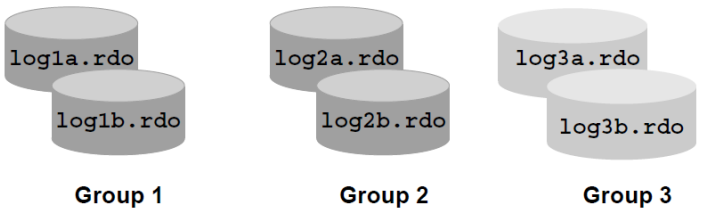
Adding Online Redo Log File Groups

```
ALTER DATABASE ADD LOGFILE GROUP 3
('$HOME/ORADATA/u01/log3a.rdo',
 '$HOME/ORADATA/u02/log3b.rdo')
SIZE 1M;
```



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Adding Online Redo Log File Members

```
ALTER DATABASE ADD LOGFILE MEMBER
'$HOME/ORADATA/u04/log1c.rdo' TO GROUP 1,
'$HOME/ORADATA/u04/log2c.rdo' TO GROUP 2,
'$HOME/ORADATA/u04/log3c.rdo' TO GROUP 3;
```

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Dropping Online Redo Log File Groups

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

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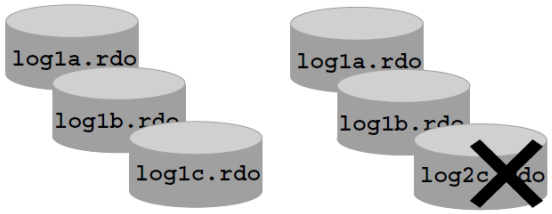
Dropping Online Redo Log File Members

```
ALTER DATABASE DROP LOGFILE MEMBER
'$HOME/ORADATA/u04/log3c.rdo';
```



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Relocating or Renaming Online Redo Log Files

Relocate or rename online redo log files in one of the two following ways:

- `ALTER DATABASE RENAME FILE` command
  - Shut down the database.
  - Copy the online redo log files to the new location.
  - Place the database in `MOUNT` mode.
  - Execute the command.
  - Open database for normal operation.

```
ALTER DATABASE RENAME FILE
 '$HOME/ORADATA/u01/log2a.rdo'
TO '$HOME/ORADATA/u02/log1c.rdo';
```

- Add new members and drop old members.

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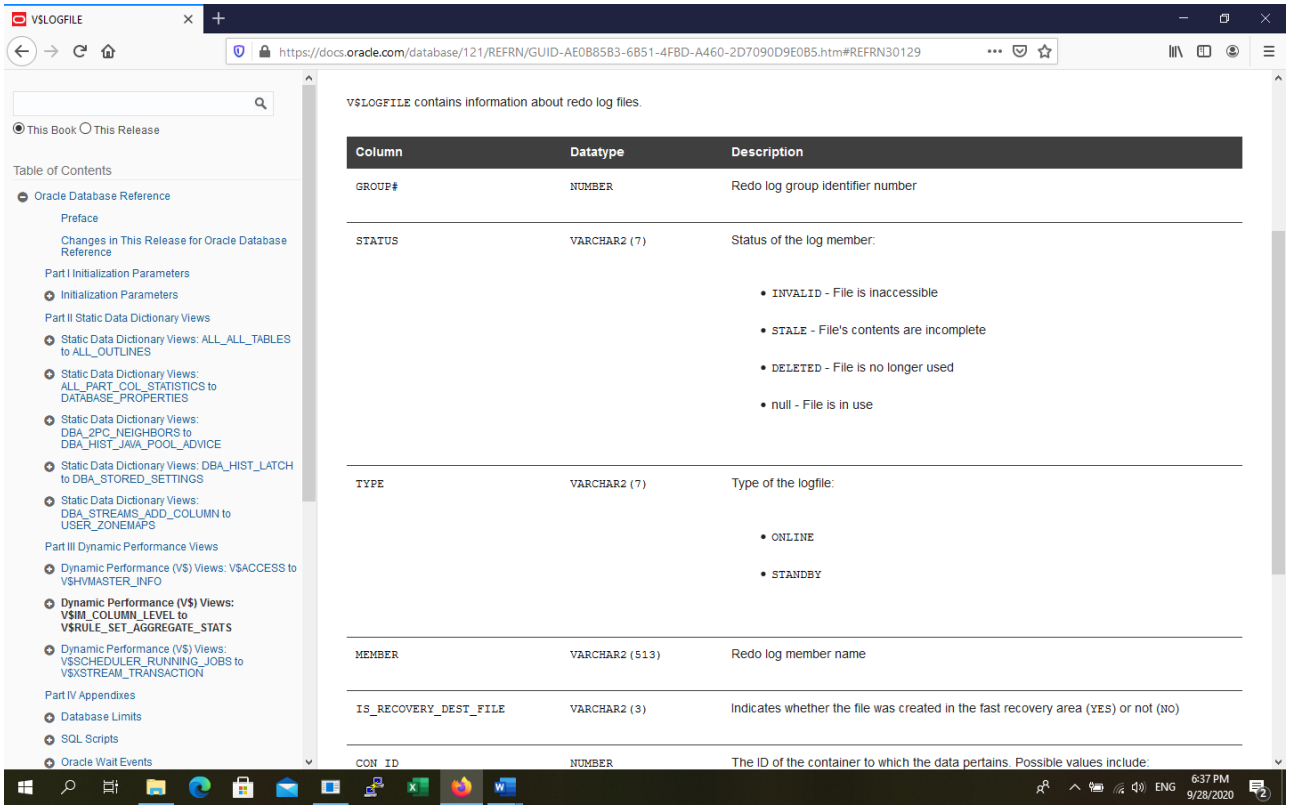
8) Informatii despre fisierele de log si starea lor:

SQL> desc v$logfile

Name	Null?	Type
GROUP#		NUMBER
STATUS		VARCHAR2(7)
TYPE		VARCHAR2(7)
MEMBER		VARCHAR2(513)
IS_RECOVERY_DEST_FILE		VARCHAR2(3)
CON_ID		NUMBER



SQL> select * from v$logfile;

GROUP#	STATUS	TYPE	MEMBER	IS_	CO
3		ONLINE	C:\ORACLE_12C\ORADATA\BD\REDO03.LOG	NO	0
2		ONLINE	C:\ORACLE_12C\ORADATA\BD\REDO02.LOG	NO	0
1		ONLINE	C:\ORACLE_12C\ORADATA\BD\REDO01.LOG	NO	0

9) Informatii legate de modul de lucru al bazei de date (cu arhivare sau fara arhivare a fisierelor de log, data cand au fost resetate fisierele de log, etc.):

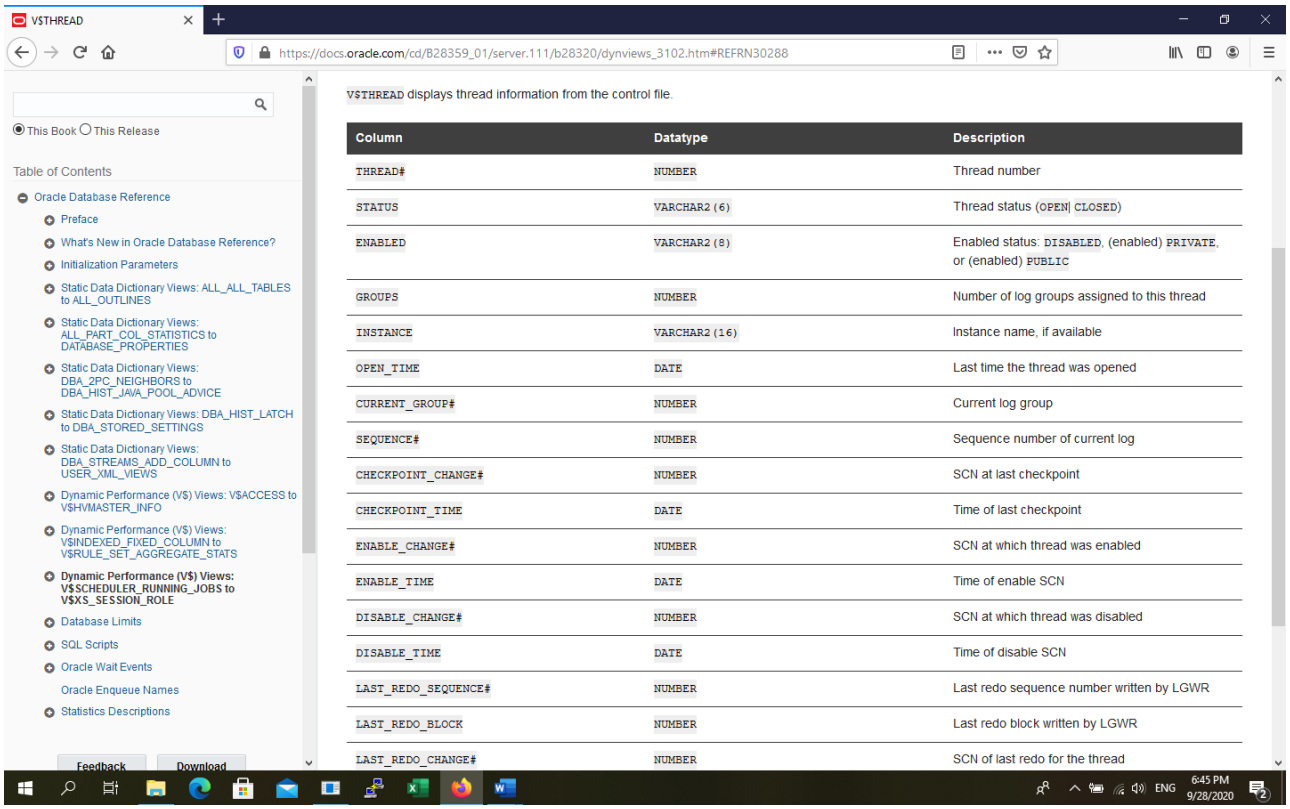
SQL> select name, log_mode, resetlogs_time from v$database;

NAME	LOG_MODE	RESETLOGS
BD	NOARCHIVELOG	08-MAY-19

10) Informatii legate de starea instantei, a grupului curent din fisierele de log si a secventei curente:

SQL> desc v$thread

Name	Null?	Type
THREAD#		NUMBER
STATUS		VARCHAR2(6)
ENABLED		VARCHAR2(8)
GROUPS		NUMBER
INSTANCE		VARCHAR2(16)
OPEN_TIME		DATE
CURRENT_GROUP#		NUMBER
SEQUENCE#		NUMBER
CHECKPOINT_CHANGE#		NUMBER
CHECKPOINT_TIME		DATE
ENABLE_CHANGE#		NUMBER
ENABLE_TIME		DATE
DISABLE_CHANGE#		NUMBER
DISABLE_TIME		DATE
LAST_REDO_SEQUENCE#		NUMBER
LAST_REDO_BLOCK		NUMBER
LAST_REDO_CHANGE#		NUMBER
LAST_REDO_TIME		DATE
CON_ID		NUMBER

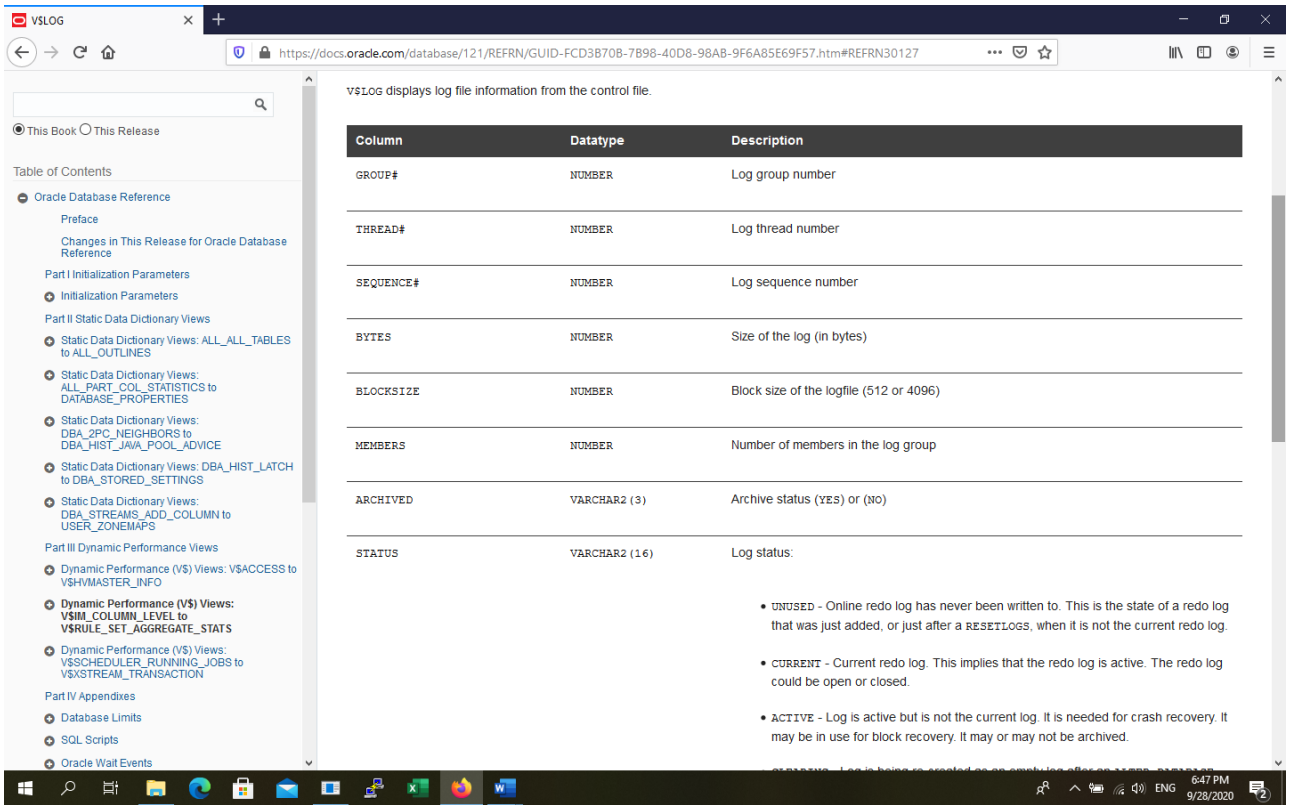


SQL> select groups, current_group#, sequence#, instance, status from v$thread;

GROUPS	CURRENT_GROUP#	SEQUENCE#	INSTANCE	STATUS
3	1	872	bd	OPEN

11) Informatii despre gupuri si membri in cadrul grupurilor:

```
SQL> desc v$log
 Name                          Null?    Type
 ----------------------------- -------- ----
 GROUP#                                 NUMBER
 THREAD#                                NUMBER
 SEQUENCE#                              NUMBER
 BYTES                                  NUMBER
 MEMBERS                                NUMBER
 ARCHIVED                               VARCHAR2(3)
 STATUS                                 VARCHAR2(16)
 FIRST_CHANGE#                          NUMBER
 FIRST_TIME                             DATE
 NEXT_CHANGE#                           NUMBER
 NEXT_TIME                              DATE
 CON_ID                                 NUMBER
```



SQL> select group#, members, bytes, archived, status from v$log;

GROUP#	MEMBERS	BYTES	ARC	STATUS
1	1	52428800	NO	CURRENT
2	1	52428800	NO	INACTIVE
3	1	52428800	NO	INACTIVE

12) Adaugarea unui membru la un grup (se creeaza automat in SO un nou fisier de log):

SQL> alter database add logfile member 'E:\TEMP\log2.rdo' to group 1;
Database altered.

13) Resetarea unui grup dintr-un fisier de log(care nu este grup curent):

SQL> alter database clear logfile group 2 ;
Database altered.

14) Relocarea unui fiser de log cu baza de date online (trebuie ca fisierul sa nu fie in grupul curent si sa existe o copie in noua locatie):

SQL> alter database rename file 'E:\TEMP\log2.rdo' to 'E:\TEMP\log22.rdo';
Database altered.

Observatii:

- ✓ Daca fisierul face parte din grupul curent, se genereaza eroarea:

ERROR at line 1:
ORA-01511: error in renaming log/data files
ORA-01621: cannot rename member of current log if database is open
ORA-00312: online log 1 thread 1:
'C:\ORACLE_12C\ORADATA\BD\REDO01.LOG'
ORA-00312: online log 1 thread 1: 'E:\TEMP\LOG2.RDO'
In acest caz se face un switch pe urmatorul grup, apoi se relocheaza fisierul respectiv:
SQL> ALTER SYSTEM SWITCH LOGFILE;

- ✓ Daca fisierul nu a fost copiat deja in noua locatie se genereaza eroarea:

ERROR at line 1:
ORA-01511: error in renaming log/data files
ORA-01512: error renaming log file E:\TEMP\LOG2.RDO - new file
F:\temp1\log2.rdo not found
ORA-27041: unable to open file
OSD-04002: unable to open file
O/S-Error: (OS 2) The system cannot find the file specified.

15) Stergerea unui membru dintr-un grup :

- ➢ Se verifica starea fiserului care va fi sters :

SQL> select * from v$logfile;

GROUP#	STATUS	TYPE	MEMBER	IS_
3		ONLINE	C:\ORACLE_12C\ORADATA\BD\REDO03.LOG	NO
2		ONLINE	C:\ORACLE_12C\ORADATA\BD\REDO02.LOG	NO
1		ONLINE	C:\ORACLE_12C\ORADATA\BD\REDO01.LOG	NO
1	INVALID	ONLINE	E:\TEMP1\LOG2.RDO	NO

- ➢ Se sterge fisierul de log (trebuie sa nu fie in grupul curent) :

SQL> alter database drop logfile member 'E:\TEMP1\LOG2.RDO';

Observatii:

- ✓ Daca fisierul face parte dintr-un grup urmator nu se poate sterge si se genereaza eroarea:

ERROR at line 1:
ORA-00362: member is required to form a valid logfile in group 3
ORA-01517: log member: 'E:\temp\log2.rdo'

- ✓ Daca fisierul face parte din grupul curent, se genereaza eroarea:

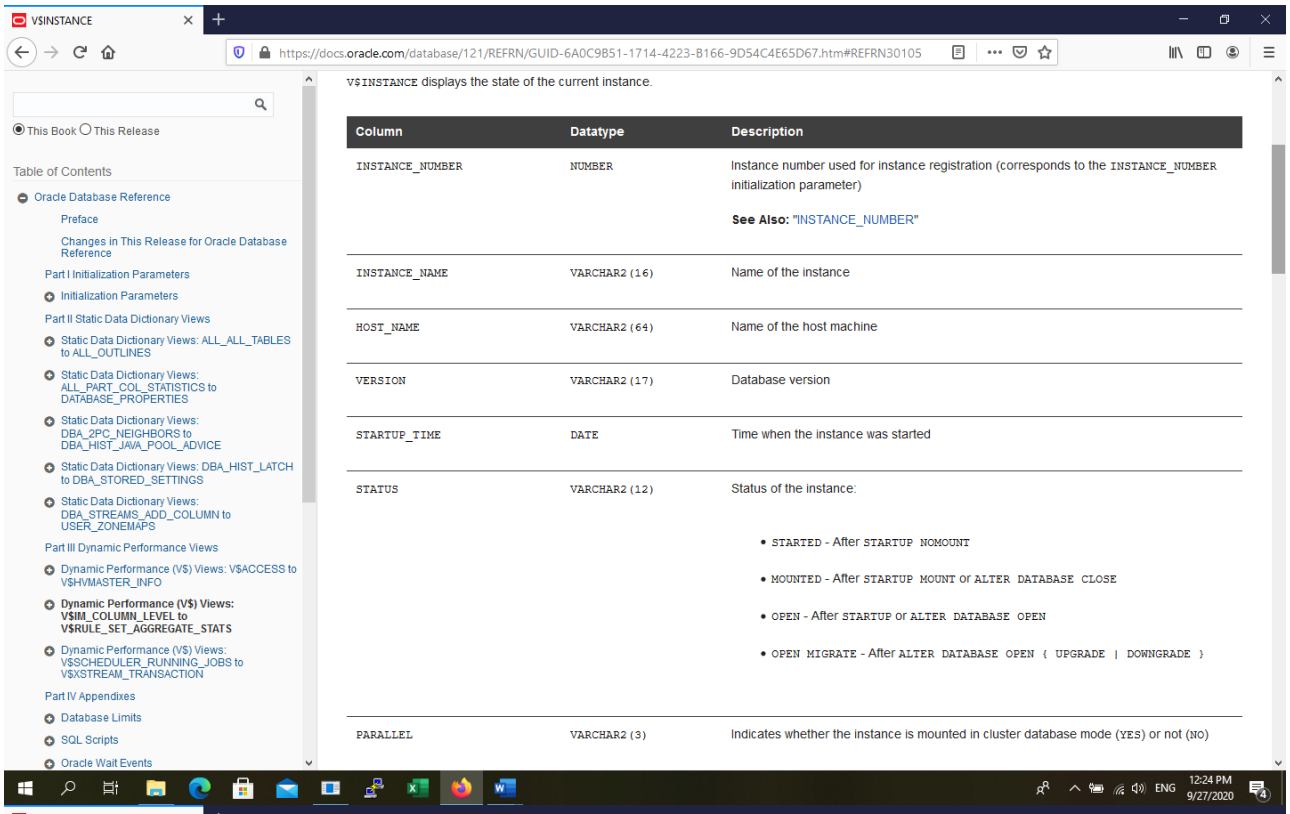
ERROR at line 1:
ORA-01609: log 1 is the current log for thread 1 - cannot drop members

In acest caz se face un switch pe urmatorul grup, apoi se sterge membrul respectiv:

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

SQL> alter database drop logfile member 'E:\TEMP\LOG2.RDO';
Database altered.

SQL> select * from v$logfile;

GROUP#  STATUS  TYPE    MEMBER                                  IS_
------  ------  ------  --------------------------------------  ---
     3          ONLINE  C:\ORACLE_12C\ORADATA\BD\REDO03.LOG      NO
     2          ONLINE  C:\ORACLE_12C\ORADATA\BD\REDO02.LOG      NO
     1          ONLINE  C:\ORACLE_12C\ORADATA\BD\REDO01.LOG      NO
```

16) Informatii legate de modul de lucru al instantei (modul arhiva sau nonarhiva):

```
SQL> desc v$instance
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------
 INSTANCE_NUMBER                                    NUMBER
 INSTANCE_NAME                                      VARCHAR2(16)
 HOST_NAME                                          VARCHAR2(64)
 VERSION                                            VARCHAR2(17)
 STARTUP_TIME                                       DATE
 STATUS                                             VARCHAR2(12)
 PARALLEL                                           VARCHAR2(3)
 THREAD#                                            NUMBER
 ARCHIVER                                           VARCHAR2(7)
 LOG_SWITCH_WAIT                                    VARCHAR2(15)
 LOGINS                                             VARCHAR2(10)
 SHUTDOWN_PENDING                                   VARCHAR2(3)
 DATABASE_STATUS                                    VARCHAR2(17)
 INSTANCE_ROLE                                      VARCHAR2(18)
 ACTIVE_STATE                                       VARCHAR2(9)
 BLOCKED                                            VARCHAR2(3)
 CON_ID                                             NUMBER
 INSTANCE_MODE                                      VARCHAR2(11)
 EDITION                                            VARCHAR2(7)
 FAMILY                                             VARCHAR2(80)
```


V$INSTANCE
https://docs.oracle.com/database/121/REFRN/GUID-6A0C9B51-1714-4223-B166-9D54C4E65D67.htm#REFRN30105
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V$INSTANCE displays the state of the current instance.
Column
Datatype
Description
INSTANCE_NUMBER
NUMBER
Instance number used for instance registration (corresponds to the INSTANCE_NUMBER initialization parameter)
See Also: "INSTANCE_NUMBER"
INSTANCE_NAME
VARCHAR2(16)
Name of the instance
HOST_NAME
VARCHAR2(64)
Name of the host machine
VERSION
VARCHAR2(17)
Database version
STARTUP_TIME
DATE
Time when the instance was started
STATUS
VARCHAR2(12)
Status of the instance:
STARTED - After STARTUP NOMOUNT
MOUNTED - After STARTUP MOUNT or ALTER DATABASE CLOSE
OPEN - After STARTUP or ALTER DATABASE OPEN
OPEN MIGRATE - After ALTER DATABASE OPEN { UPGRADE | DOWNGRADE }
PARALLEL
VARCHAR2(3)
Indicates whether the instance is mounted in cluster database mode (YES) or not (NO)
ENG
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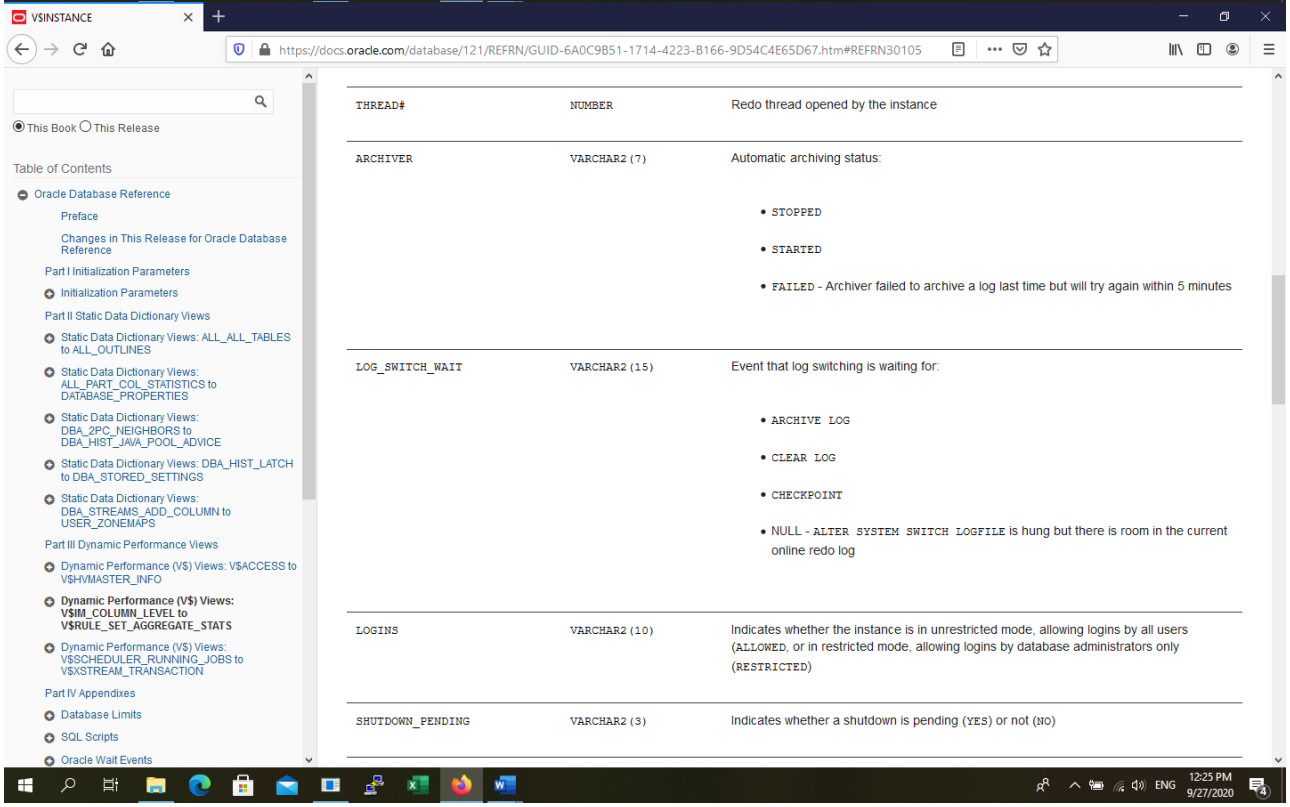
9/27/2020


V$INSTANCE
https://docs.oracle.com/database/121/REFRN/GUID-6A0C9B51-1714-4223-B166-9D54C4E65D67.htm#REFRN30105
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THREAD#
NUMBER
Redo thread opened by the instance
ARCHIVER
VARCHAR2(7)
Automatic archiving status:
STOPPED
STARTED
FAILED - Archiver failed to archive a log last time but will try again within 5 minutes
LOG_SWITCH_WAIT
VARCHAR2(15)
Event that log switching is waiting for:
ARCHIVE LOG
CLEAR LOG
CHECKPOINT
NULL - ALTER SYSTEM SWITCH LOGFILE is hung but there is room in the current online redo log
LOGINS
VARCHAR2(10)
Indicates whether the instance is in unrestricted mode, allowing logins by all users (ALLOWED), or in restricted mode, allowing logins by database administrators only (RESTRICTED)
SHUTDOWN_PENDING
VARCHAR2(3)
Indicates whether a shutdown is pending (YES) or not (NO)
ENG
12:25 PM
9/27/2020

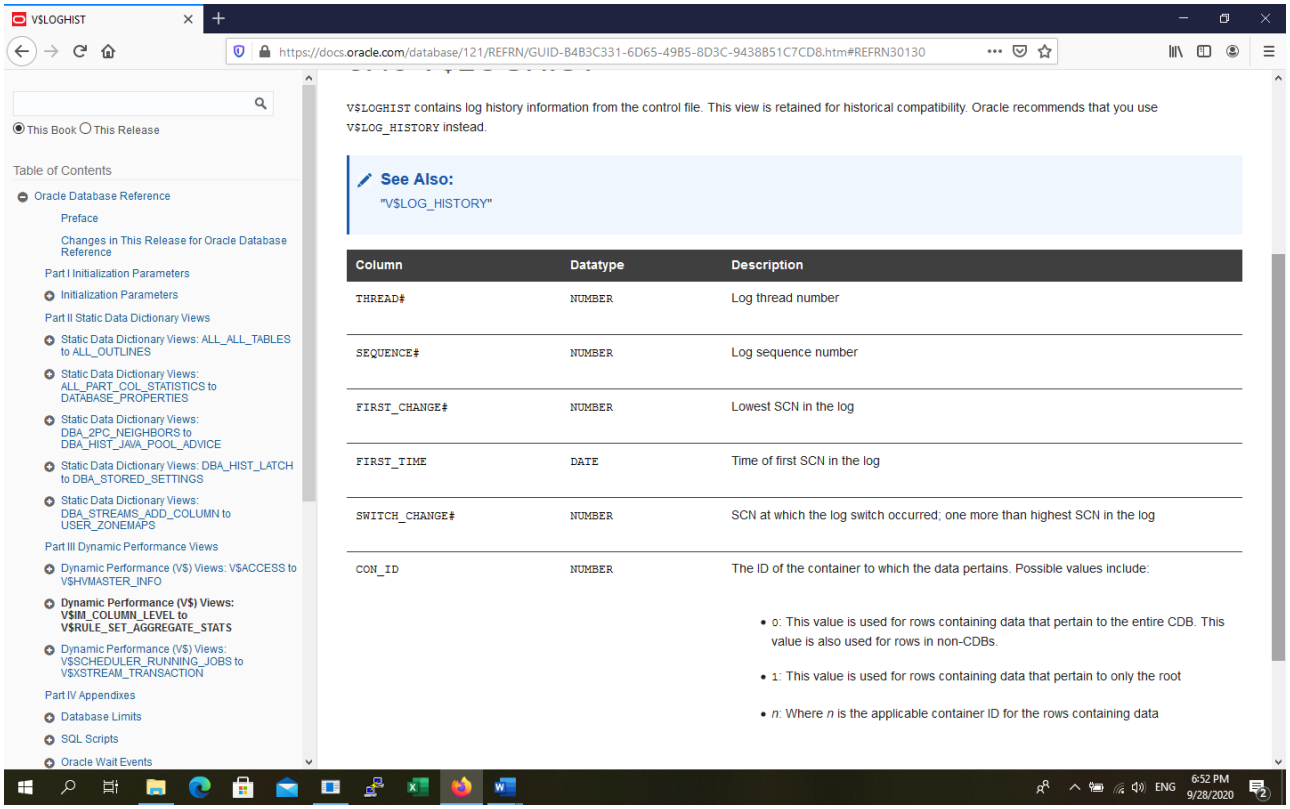
SQL> select instance_name, status, archiver from v$instance;

INSTANCE_NAME	STATUS	ARCHIVE
bd	OPEN	STOPPED

17) Informatii despre istoricul fisierelor de log:

SQL> desc v$loghist

Name	Null?	Type
THREAD#		NUMBER
SEQUENCE#		NUMBER
FIRST_CHANGE#		NUMBER
FIRST_TIME		DATE
SWITCH_CHANGE#		NUMBER
CON_ID		NUMBER



SQL> select * from v$loghist;

THREAD#	SEQUENCE#	FIRST_CHANGE#	FIRST_TIM	SWITCH_CHANGE#	CON_ID
1	1	2233668	08-MAY-19	2251966	0
1	2	2251966	08-MAY-19	2257658	0
1	3	2257658	08-MAY-19	2257826	0
1	4	2257826	08-MAY-19	2260506	0
1	5	2260506	08-MAY-19	2370497	0
1	6	2370497	10-MAY-19	2385355	0
1	7	2385355	11-MAY-19	2393508	0
1	8	2393508	11-MAY-19	2401645	0
1	9	2401645	11-MAY-19	2417525	0
1	10	2417525	11-MAY-19	2426821	0
1	11	2426821	12-MAY-19	2441691	0