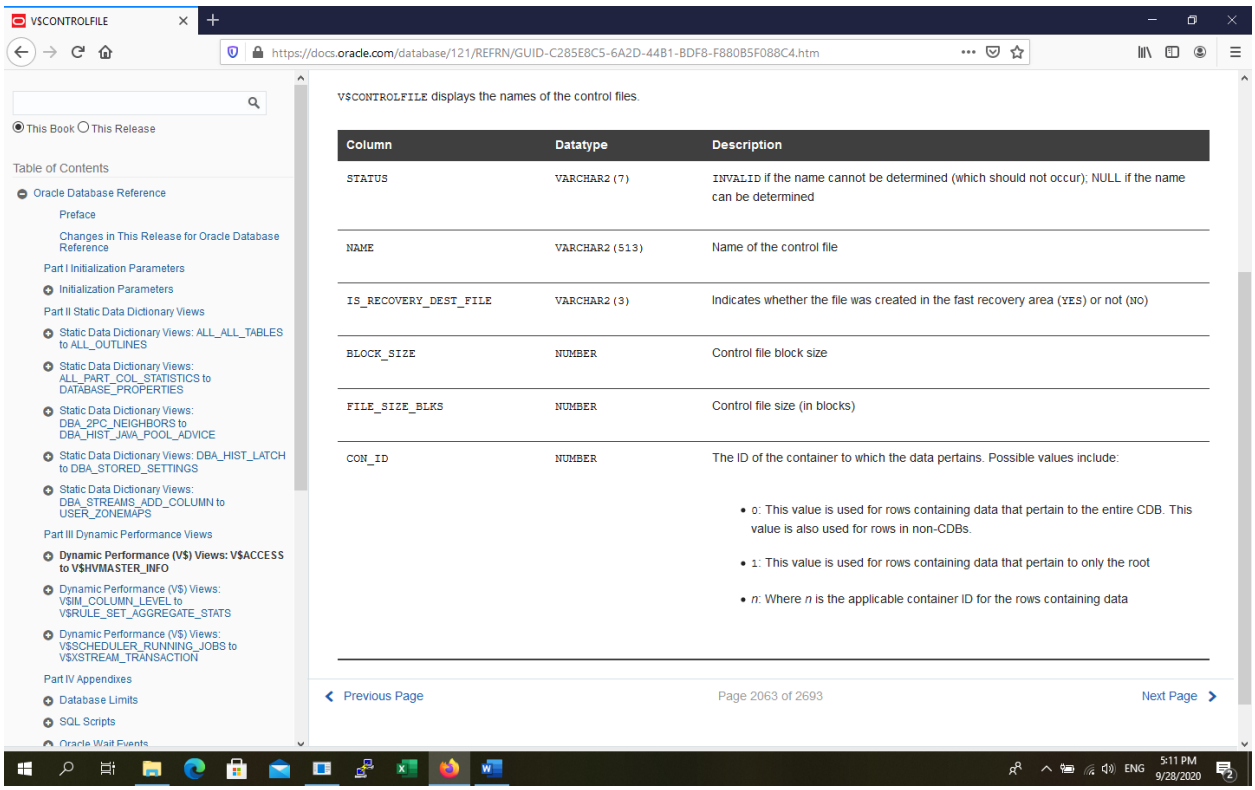
Fisiere de control
(Cap. 6)

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
```

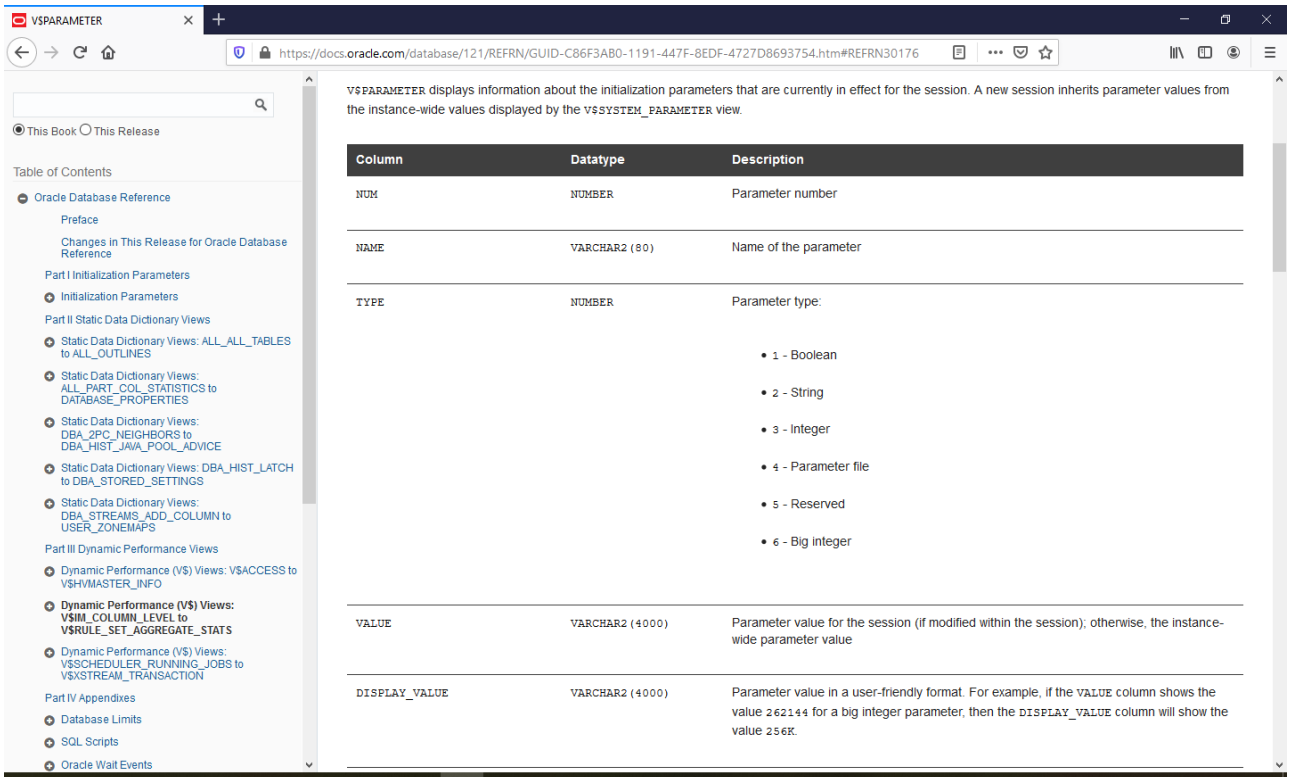


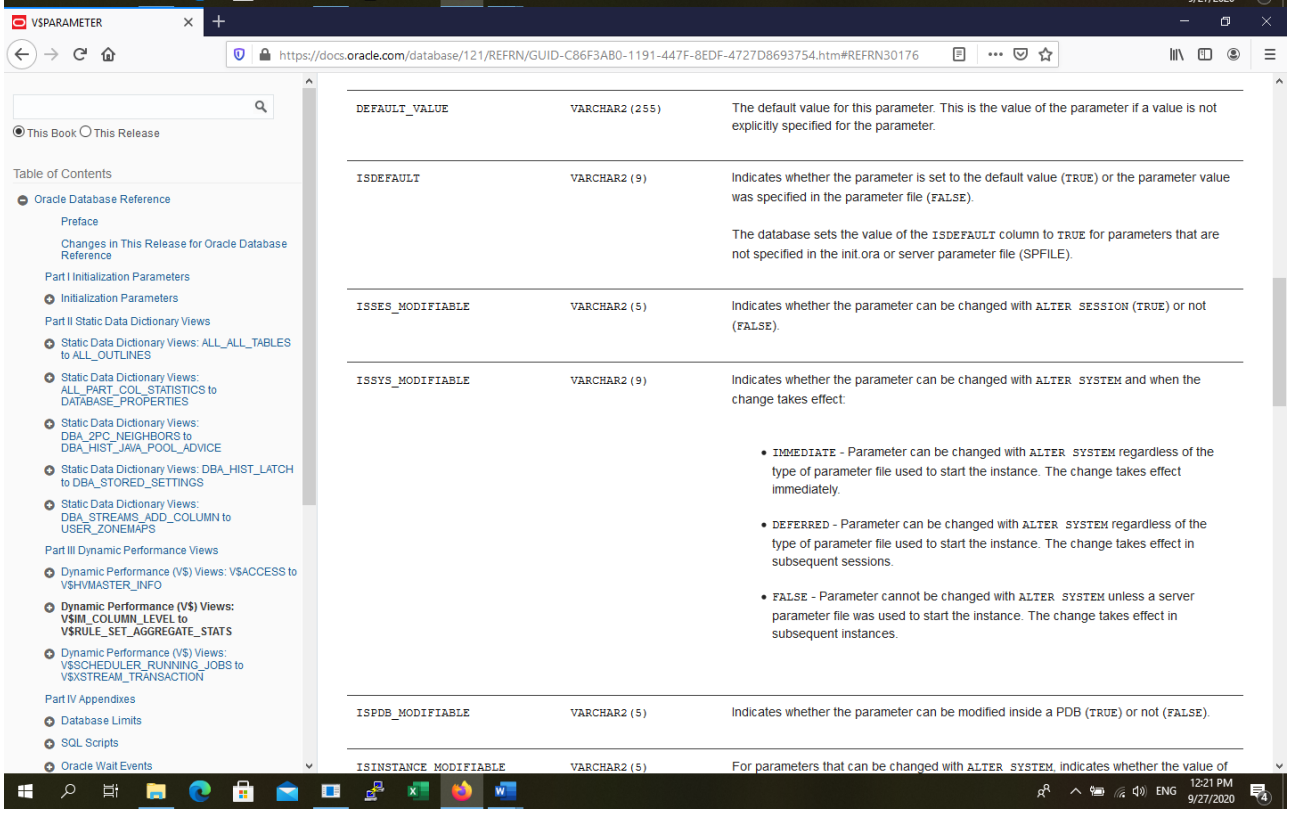

```
SQL> select name,block_size, file_size_blks from v$controlfile;

        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





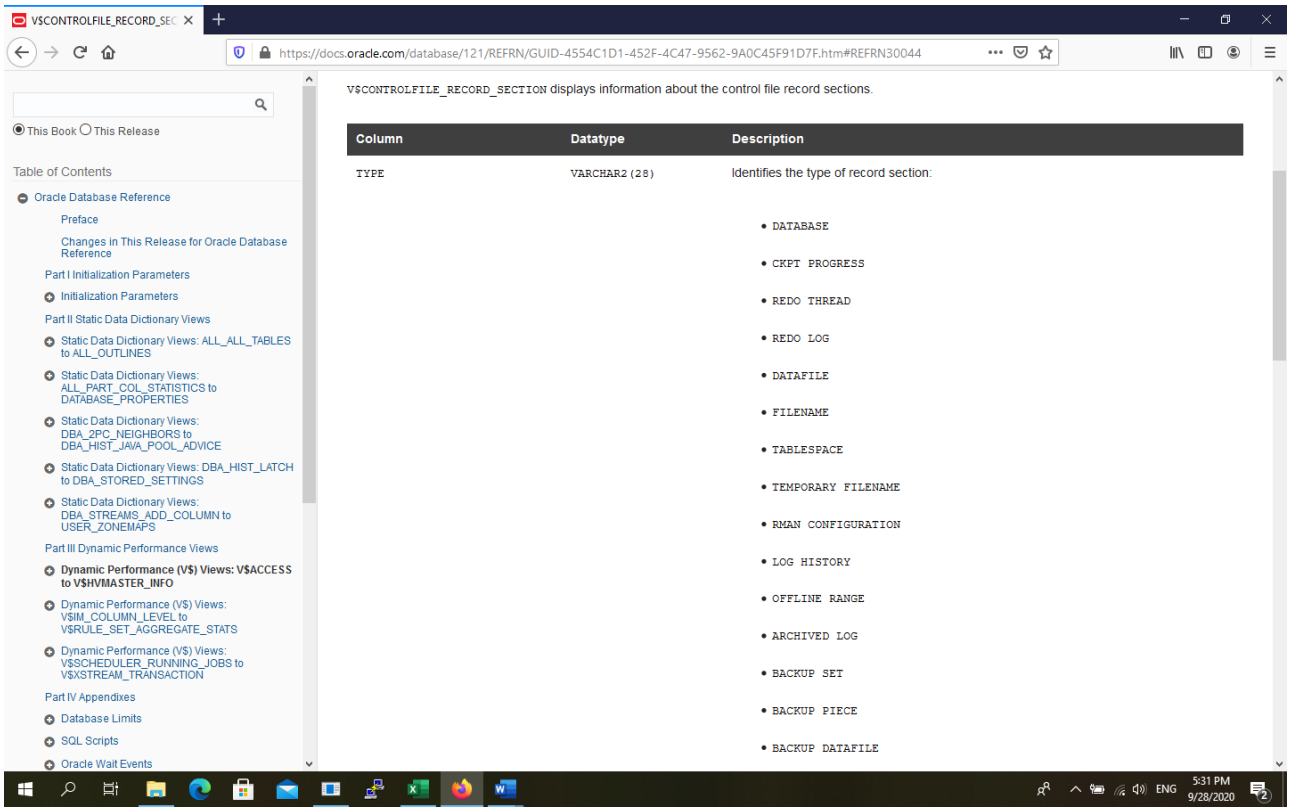
SQL> select name, type, value from v$parameter where name='control_files';

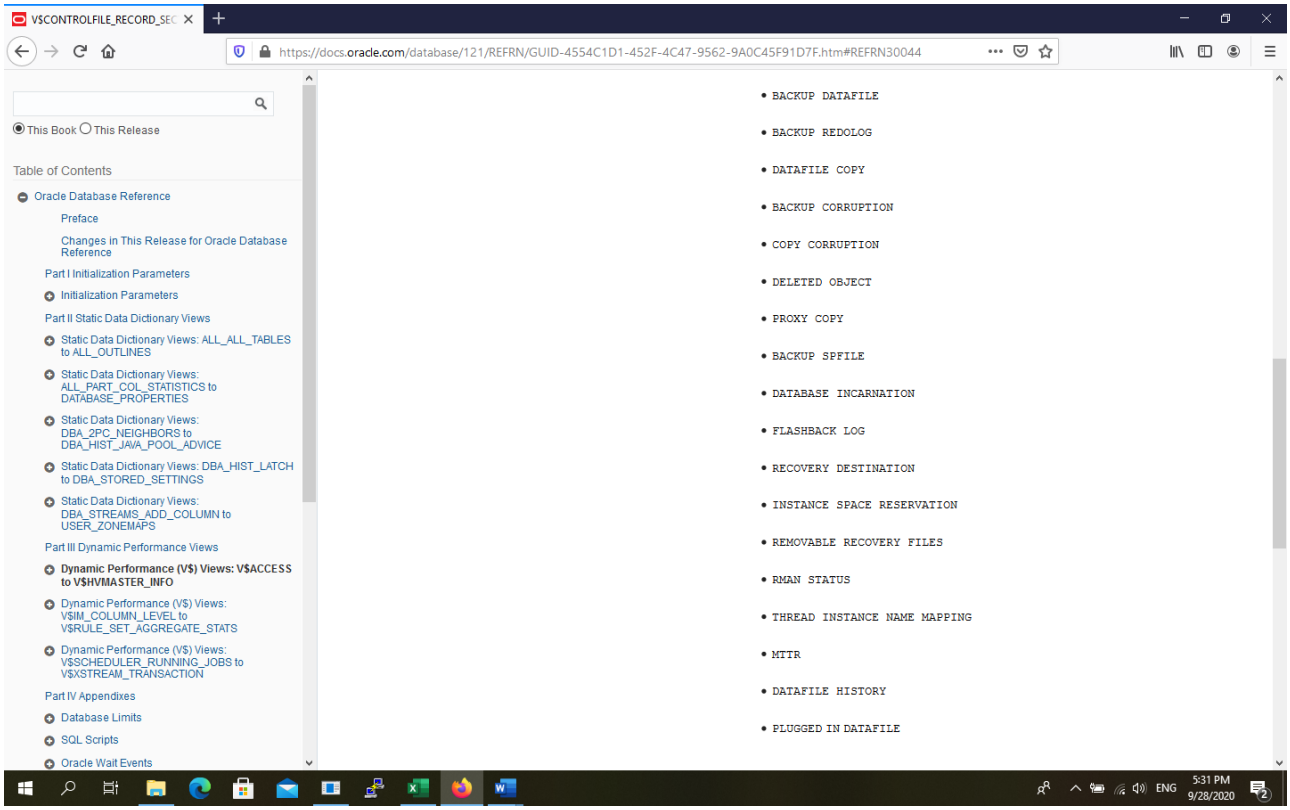
NUM	NAME	TYPE	VALUE
1213	control_files	2	C:\ORACLE_12C\ORADATA\BD\CONTROL01.CTL, C:\ORACLE_12C\ORADATA\BD\CONTROL02.CTL

3) Informatii despre marimea 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




V$CONTROLFILE_RECORD_SEC
https://docs.oracle.com/database/121/REFRN/GUID-4554C1D1-452F-4C47-9562-9A0C45F91D7F.htm#REFRN30044
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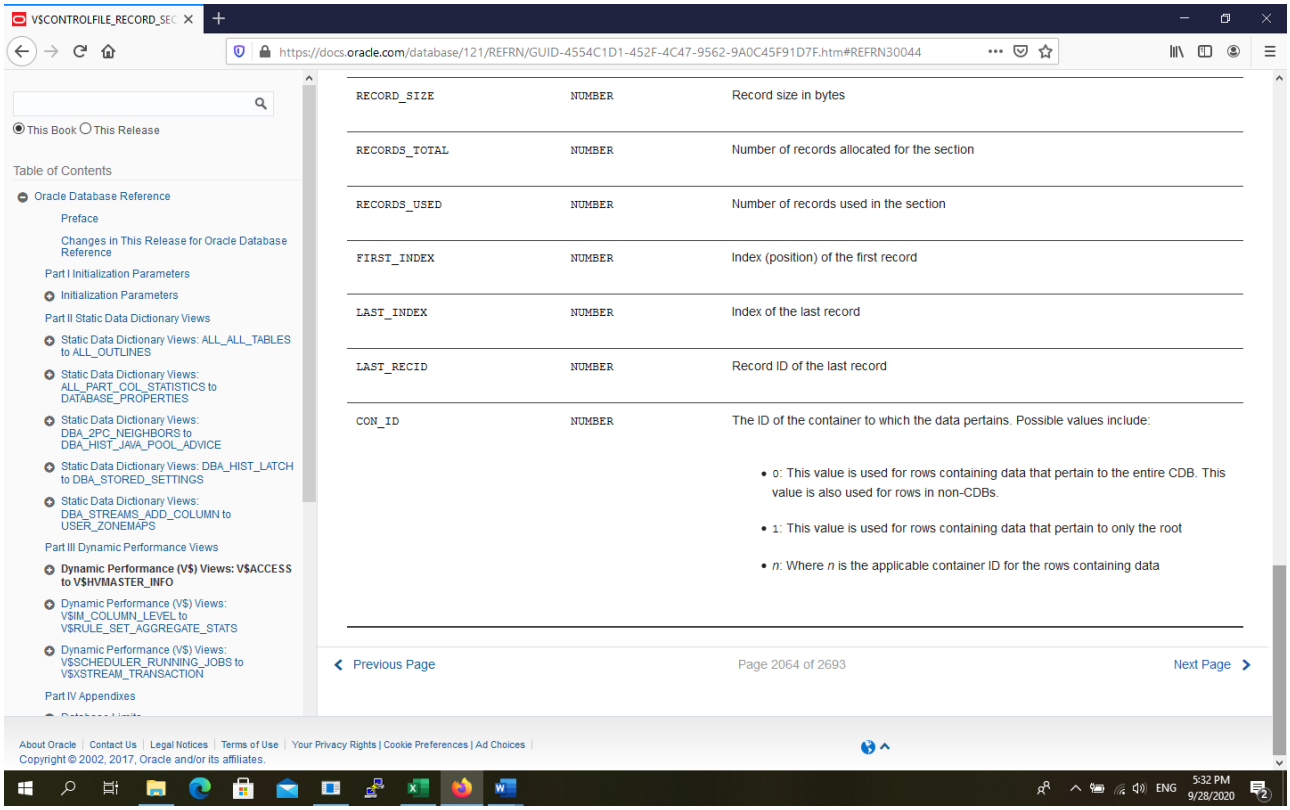
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RECORD_SIZE NUMBER Record size in bytes
RECORDS_TOTAL NUMBER Number of records allocated for the section
RECORDS_USED NUMBER Number of records used in the section
FIRST_INDEX NUMBER Index (position) of the first record
LAST_INDEX NUMBER Index of the last record
LAST_RECID NUMBER Record ID of the last record
CON_ID NUMBER The ID of the container to which the data pertains. Possible values include:
0: This value is used for rows containing data that pertain to the entire CDB. This value is also used for rows in non-CDBs.
1: This value is used for rows containing data that pertain to only the root
n: Where n is the applicable container ID for the rows containing data
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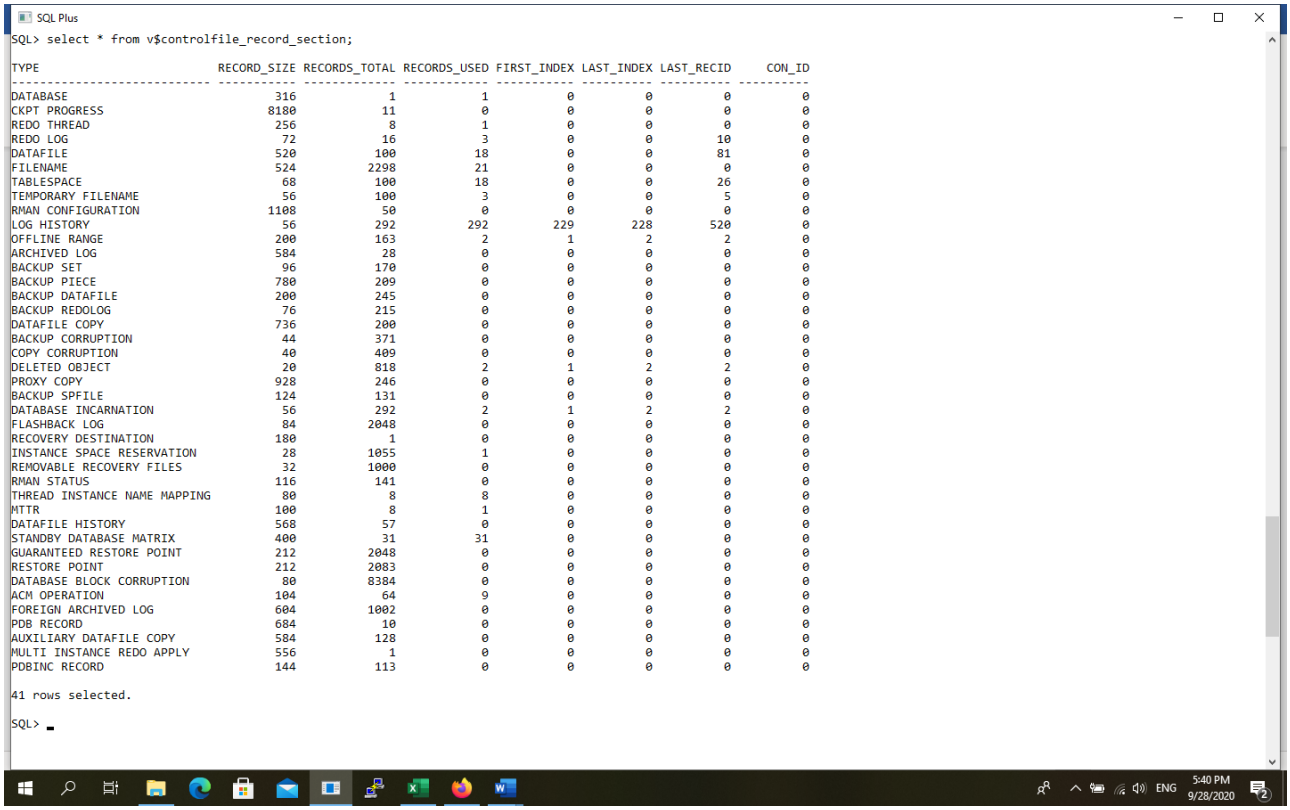
SQL> select * from v$controlfile_record_section;



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

TYPE                         RECORD_SIZE RECORDS_TOTAL RECORDS_USED FIRST_INDEX LAST_INDEX LAST_RECID     CON_ID
---------------------------- ----------- ------------- ------------ ----------- ---------- ---------- ----------
DATABASE                             316             1            1           0          0          0          0
CKPT PROGRESS                       8180            11            0           0          0          0          0
REDO THREAD                          256             8            1           0          0          0          0
REDO LOG                              72            16            3           0          0         10          0
DATAFILE                             520           100           18           0          0         81          0
FILENAME                             524          2298           21           0          0          0          0
TABLESPACE                            68           100           18           0          0         26          0
TEMPORARY FILENAME                    56           100            3           0          0          5          0
RMAN CONFIGURATION                  1108            50            0           0          0          0          0
LOG HISTORY                           56           292          292         229        228        520          0
OFFLINE RANGE                        200           163            2           1          2          2          0
ARCHIVED LOG                         584            28            0           0          0          0          0
BACKUP SET                            96           170            0           0          0          0          0
BACKUP PIECE                         780           209            0           0          0          0          0
BACKUP DATAFILE                      200           245            0           0          0          0          0
BACKUP REDOLOG                        76           215            0           0          0          0          0
DATAFILE COPY                        736           200            0           0          0          0          0
BACKUP CORRUPTION                     44           371            0           0          0          0          0
COPY CORRUPTION                       40           409            0           0          0          0          0
DELETED OBJECT                        20           818            2           1          2          2          0
PROXY COPY                           928           246            0           0          0          0          0
BACKUP SPFILE                        124           131            0           0          0          0          0
DATABASE INCARNATION                  56           292            2           1          2          2          0
FLASHBACK LOG                         84          2048            0           0          0          0          0
RECOVERY DESTINATION                 180             1            0           0          0          0          0
INSTANCE SPACE RESERVATION            28          1055            1           0          0          0          0
REMOVABLE RECOVERY FILES              32          1000            0           0          0          0          0
RMAN STATUS                          116           141            0           0          0          0          0
THREAD INSTANCE NAME MAPPING          80             8            8           0          0          0          0
MTTR                                 100             8            1           0          0          0          0
DATAFILE HISTORY                     568            57            0           0          0          0          0
STANDBY DATABASE MATRIX              400            31           31           0          0          0          0
GUARANTEED RESTORE POINT             212          2048            0           0          0          0          0
RESTORE POINT                        212          2083            0           0          0          0          0
DATABASE BLOCK CORRUPTION             80          8384            0           0          0          0          0
ACM OPERATION                        104            64            9           0          0          0          0
FOREIGN ARCHIVED LOG                 604          1002            0           0          0          0          0
PDB RECORD                           684            10            0           0          0          0          0
AUXILIARY DATAFILE COPY              584           128            0           0          0          0          0
MULTI INSTANCE REDO APPLY            556             1            0           0          0          0          0
PDBINC RECORD                        144           113            0           0          0          0          0

41 rows selected.

SQL>
```

4) Vizualizare fisiere de control:

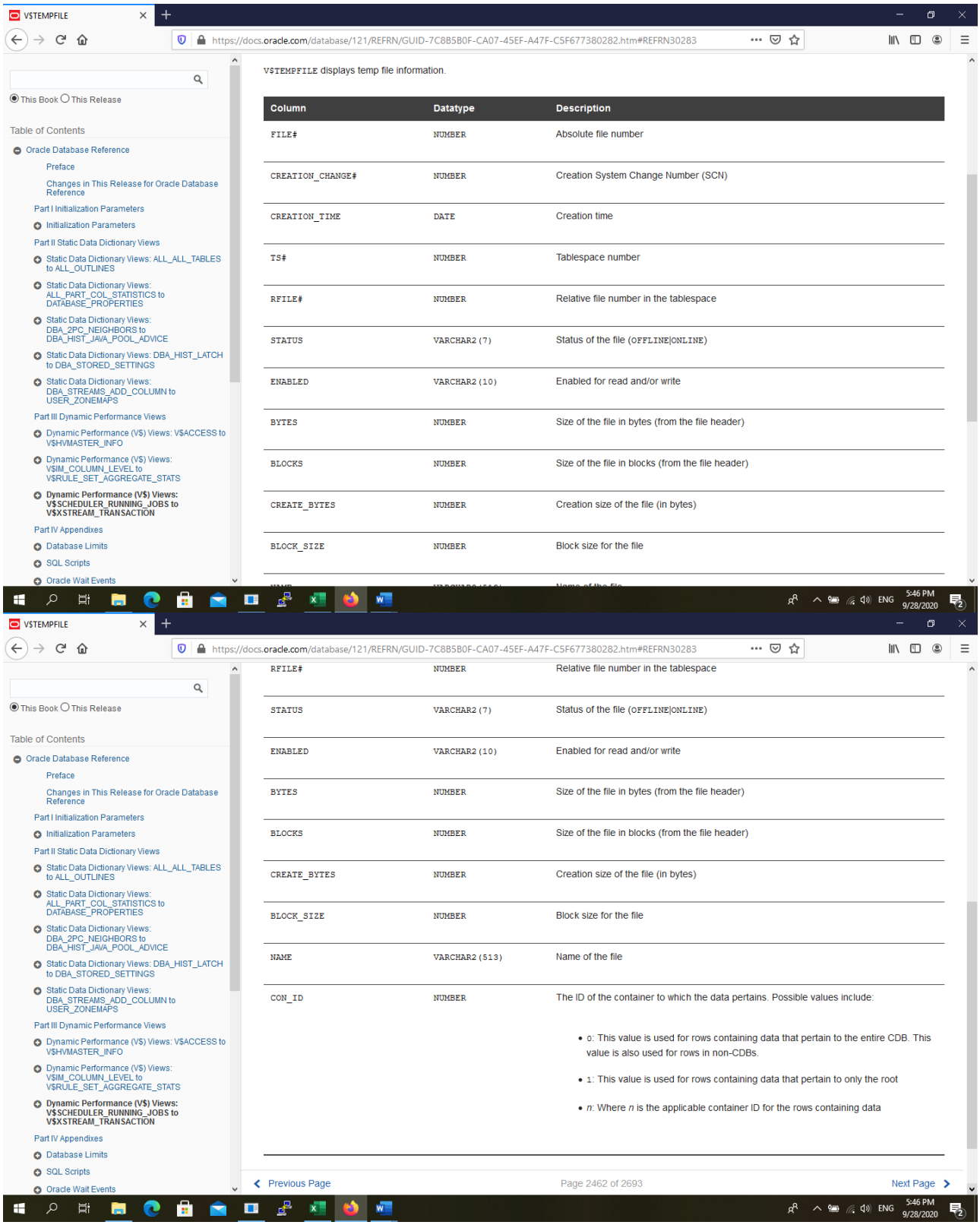
SQL> SHOW PARAMETER CONTROL_FILES

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



V$TEMPFILE

https://docs.oracle.com/database/121/REFRN/GUID-7C8B5B0F-CA07-45EF-A47F-C5F677380282.htm#REFRN30283

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V$TEMPFILE displays temp file information.

Column	Datatype	Description
FILE#	NUMBER	Absolute file number
CREATION_CHANGE#	NUMBER	Creation System Change Number (SCN)
CREATION_TIME	DATE	Creation time
TS#	NUMBER	Tablespace number
RFILE#	NUMBER	Relative file number in the tablespace
STATUS	VARCHAR2(7)	Status of the file (OFFLINE|ONLINE)
ENABLED	VARCHAR2(10)	Enabled for read and/or write
BYTES	NUMBER	Size of the file in bytes (from the file header)
BLOCKS	NUMBER	Size of the file in blocks (from the file header)
CREATE_BYTES	NUMBER	Creation size of the file (in bytes)
BLOCK_SIZE	NUMBER	Block size for the file
NAME	VARCHAR2(513)	Name of the file
CON_ID	NUMBER	The ID of the container to which the data pertains. Possible values include: • 0: This value is used for rows containing data that pertain to the entire CDB. This value is also used for rows in non-CDBs. • 1: This value is used for rows containing data that pertain to only the root • *n*: Where *n* is the applicable container ID for the rows containing data

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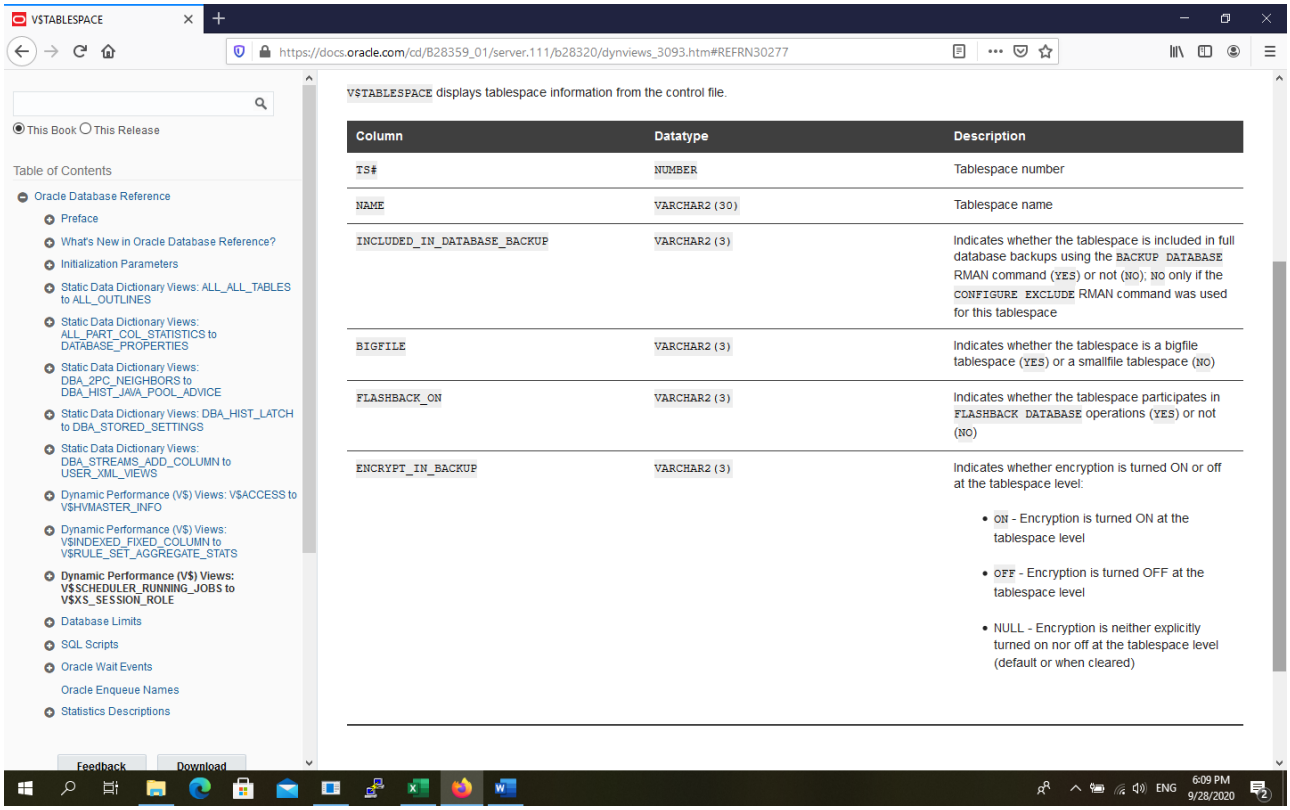
SQL> select * from v$tempfile;

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
```



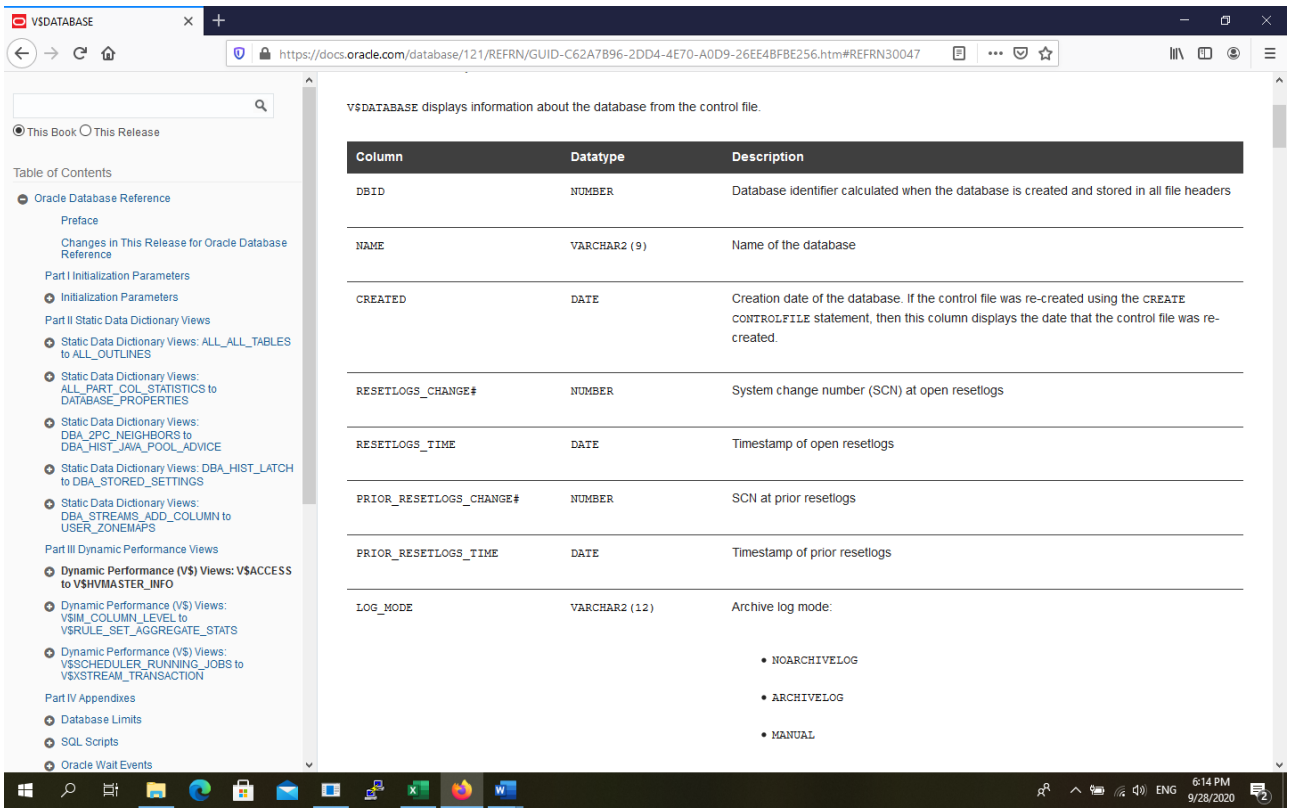

```
SQL> select ts#, name, included_in_database_backup from v$tablespace;

       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
```

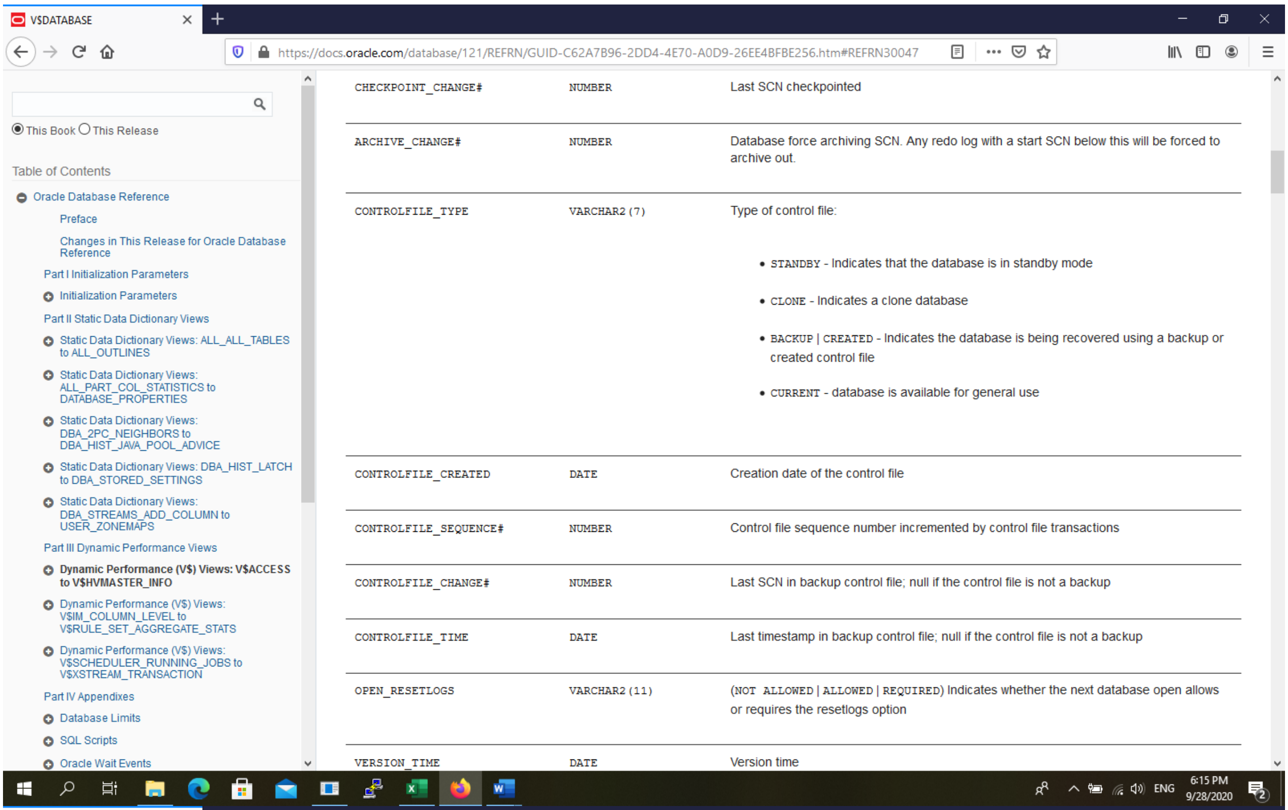
```
 8 BI_IAS_UMS                   YES
 9 BI_MDS                       YES
10 BI_IAU                       YES
11 BI_BIPLATFORM                YES
12 BI_WLS                       YES
13 BI_STB                       YES
20 BD_UNDO                      YES
19 UBD_TEMP                     NO
21 BD_DATA                      YES
22 BD_TEMP                      NO
```

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

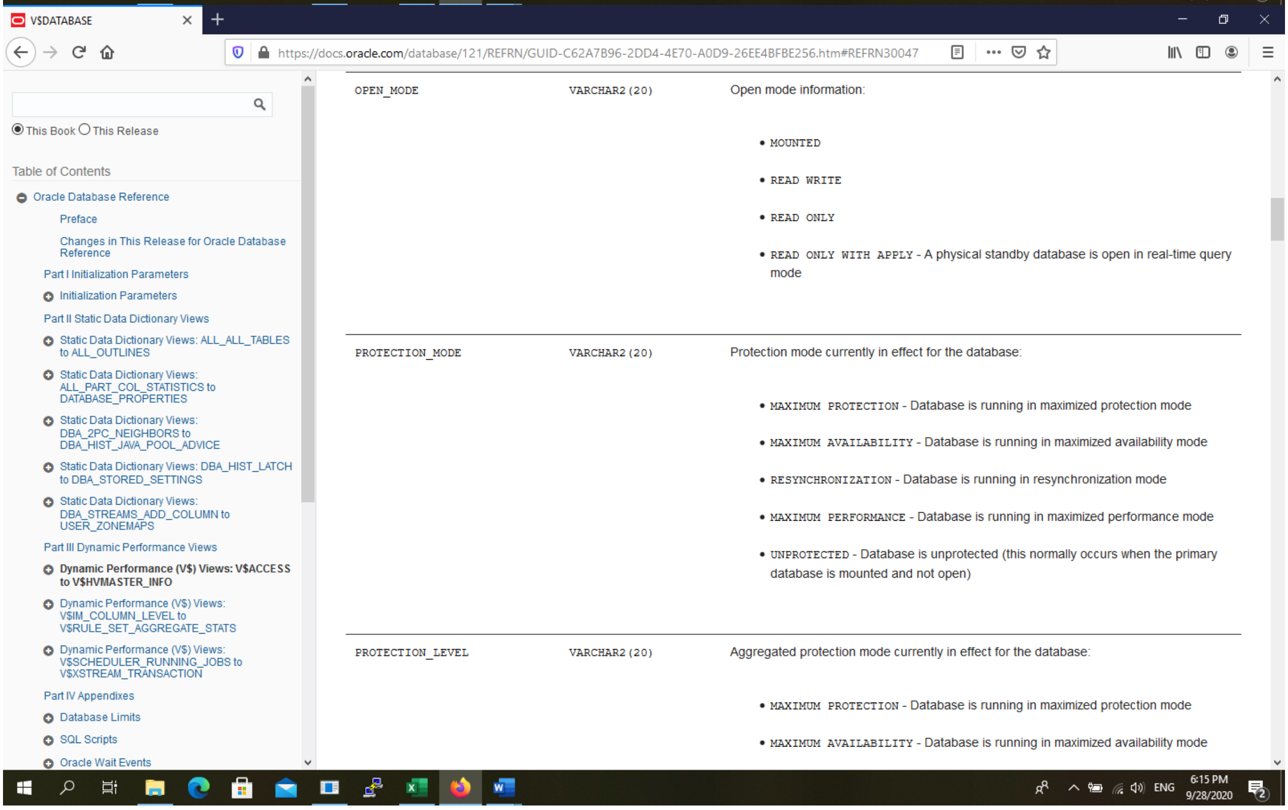
```
SQL> desc v$database
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 DBID                                               NUMBER
 NAME                                               VARCHAR2(9)
 CREATED                                            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)





CHECKPOINT_CHANGE#	NUMBER	Last SCN checkpointed
ARCHIVE_CHANGE#	NUMBER	Database force archiving SCN. Any redo log with a start SCN below this will be forced to archive out.
CONTROLFILE_TYPE	VARCHAR2(7)	Type of control file: • STANDBY - Indicates that the database is in standby mode • CLONE - Indicates a clone database • BACKUP | CREATED - Indicates the database is being recovered using a backup or created control file • CURRENT - database is available for general use
CONTROLFILE_CREATED	DATE	Creation date of the control file
CONTROLFILE_SEQUENCE#	NUMBER	Control file sequence number incremented by control file transactions
CONTROLFILE_CHANGE#	NUMBER	Last SCN in backup control file; null if the control file is not a backup
CONTROLFILE_TIME	DATE	Last timestamp in backup control file; null if the control file is not a backup
OPEN_RESETLOGS	VARCHAR2(11)	(NOT ALLOWED | ALLOWED | REQUIRED) Indicates whether the next database open allows or requires the resetlogs option
VERSION_TIME	DATE	Version time

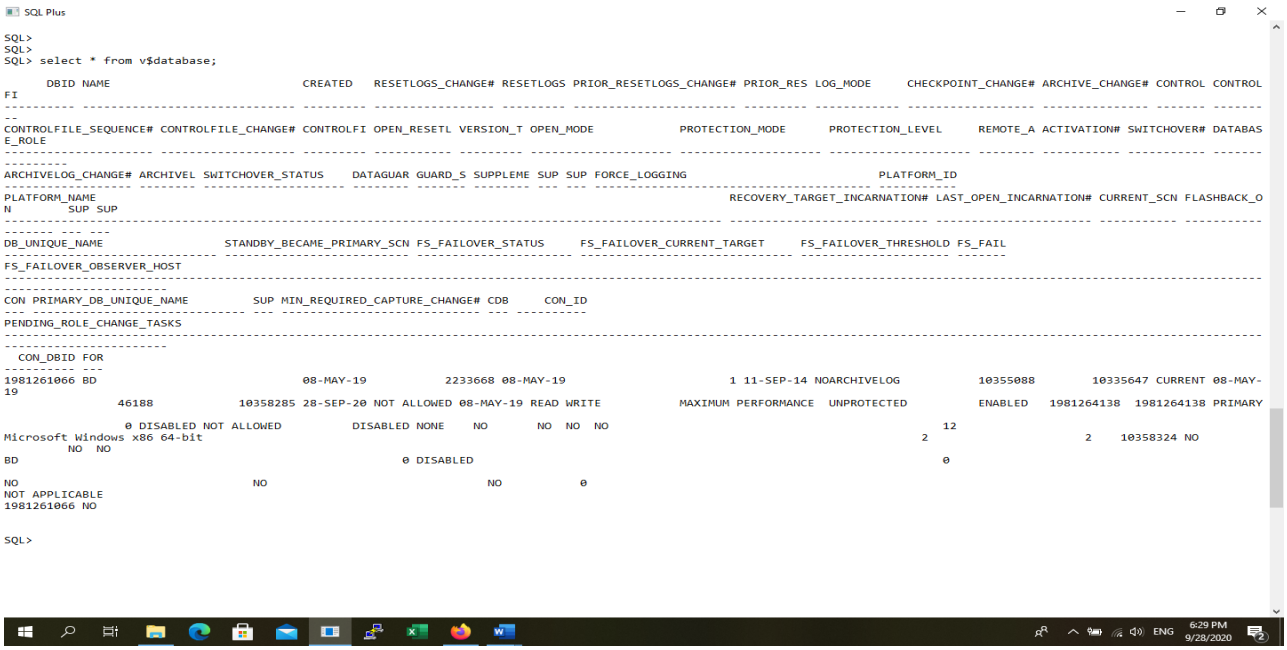


OPEN_MODE	VARCHAR2(20)	Open mode information: • MOUNTED • READ WRITE • READ ONLY • READ ONLY WITH APPLY - A physical standby database is open in real-time query mode
PROTECTION_MODE	VARCHAR2(20)	Protection mode currently in effect for the database: • MAXIMUM PROTECTION - Database is running in maximized protection mode • MAXIMUM AVAILABILITY - Database is running in maximized availability mode • RESYNCHRONIZATION - Database is running in resynchronization mode • MAXIMUM PERFORMANCE - Database is running in maximized performance mode • UNPROTECTED - Database is unprotected (this normally occurs when the primary database is mounted and not open)
PROTECTION_LEVEL	VARCHAR2(20)	Aggregated protection mode currently in effect for the database: • MAXIMUM PROTECTION - Database is running in maximized protection mode • MAXIMUM AVAILABILITY - Database is running in maximized availability mode

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;


SQL Plus
SQL>
SQL>
SQL> select * from v$database;
DBID NAME CREATED RESETLOGS_CHANGE# RESETLOGS PRIOR_RESETLOGS_CHANGE# PRIOR_RES LOG_MODE CHECKPOINT_CHANGE# ARCHIVE_CHANGE# CONTROL CONTROL
FI
CONTROLFILE_SEQUENCE# CONTROLFILE_CHANGE# CONTROLFI OPEN_RESETL VERSION_T OPEN_MODE PROTECTION_MODE PROTECTION_LEVEL REMOTE_A ACTIVATION# SWITCHOVER# DATABAS
E_ROLE
ARCHIVELOG_CHANGE# ARCHIVEL SWITCHOVER_STATUS DATAGUAR GUARD_S SUPPLEME SUP SUP FORCE_LOGGING PLATFORM_ID
PLATFORM_NAME RECOVERY_TARGET_INCARNATION# LAST_OPEN_INCARNATION# CURRENT_SCN FLASHBACK_O
N SUP SUP
DB_UNIQUE_NAME STANDBY_BECAME_PRIMARY_SCN FS_FAILOVER_STATUS FS_FAILOVER_CURRENT_TARGET FS_FAILOVER_THRESHOLD FS_FAIL
FS_FAILOVER_OBSERVER_HOST
CON PRIMARY_DB_UNIQUE_NAME SUP MIN_REQUIRED_CAPTURE_CHANGE# CDB CON_ID
PENDING_ROLE_CHANGE_TASKS
CON_DBID FOR
1981261066 BD 08-MAY-19 2233668 08-MAY-19 1 11-SEP-14 NOARCHIVELOG 10355088 10335647 CURRENT 08-MAY-
19
46188 10358285 28-SEP-20 NOT ALLOWED 08-MAY-19 READ WRITE MAXIMUM PERFORMANCE UNPROTECTED ENABLED 1981264138 1981264138 PRIMARY
0 DISABLED NOT ALLOWED DISABLED NONE NO NO NO NO 12
Microsoft Windows x86 64-bit 2 2 10358324 NO
NO NO
BD 0 DISABLED 0
NO NO NO 0
NOT APPLICABLE
1981261066 NO
SQL>
ENG
6:29 PM
9/28/2020