

Dictionarul bazei de date (Cap. 5)

1) Structura dictionarului bazei de date:

SQL> desc dictionary

Name	Null?	Type

TABLE_NAME		VARCHAR2(30)
COMMENTS		VARCHAR2(4000)

SQL> select table_name, comments from dictionary where table_name like 'USER_TAB%';

TABLE_NAME	COMMENTS

USER_TABLES	Description of the user's own relational tables
USER_TABLESPACES	Description of accessible tablespaces
USER_TAB_COLS	Columns of user's tables, views and clusters
USER_TAB_COLS_V\$	
USER_TAB_COLUMNS	Columns of user's tables, views and clusters
USER_TAB_COL_STATISTICS	Columns of user's tables, views and clusters
USER_TAB_COMMENTS	Comments on the tables and views owned by the user
USER_TAB_HISTGRM_PENDING_STATS	Pending statistics of tables, partitions, and subpartitions
USER_TAB_HISTOGRAMS	Histograms on columns of user's tables
USER_TAB_IDENTITY_COLS	Describes all table identity columns
USER_TAB_MODIFICATIONS	Information regarding modifications to tables
USER_TAB_PARTITIONS	
USER_TAB_PENDING_STATS	History of table statistics modifications
USER_TAB_PRIVS	Grants on objects for which the user is the owner, grantor or grantee
USER_TAB_PRIVS_MADE	All grants on objects owned by the user
USER_TAB_PRIVS_RECD	Grants on objects for which the user is the grantee
USER_TAB_STATISTICS	Optimizer statistics of the user's own tables
USER_TAB_STATS_HISTORY	History of table statistics modifications
USER_TAB_STAT_PREFS	Statistics preferences for tables
USER_TAB_SUBPARTITIONS	

SQL> select table_name from dictionary where table_name like 'USER%';

TABLE_NAME

USER_INDEXES
USER_IND_COLUMNS
USER_IND_EXPRESSIONS
USER_JOIN_IND_COLUMNS

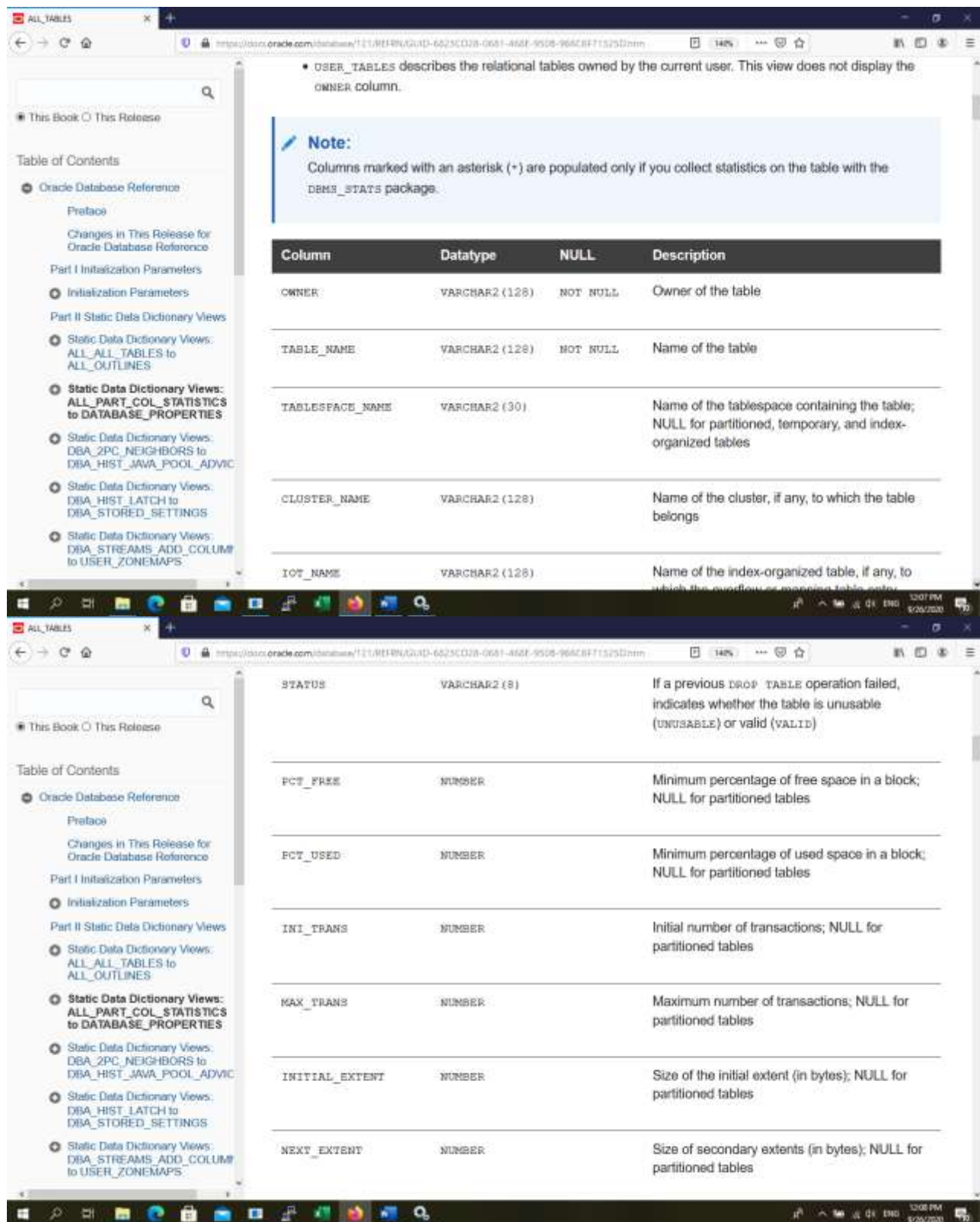
USER_OBJECTS
 USER_PROCEDURES
 USER_STORED_SETTINGS
 USER_PLSQL_OBJECT_SETTINGS
 USER_ARGUMENTS
 USER_RESUMABLE
 USER_ROLE_PRIVS
 USER_SYS_PRIVS
 USER_SEQUENCES
 USER_SYNONYMS
 USER_TABLES
 USER_OBJECT_TABLES
 USER_ALL_TABLES
 USER_TAB_COLS
 USER_TAB_COLUMNS
 USER_NESTED_TABLE_COLS
 USER_TAB_COL_STATISTICS
 USER_TAB_HISTOGRAMS
 USER_TAB_COMMENTS
 USER_TAB_PRIVS
 USER_TAB_PRIVS_MADE
 USER_TAB_PRIVS_RECD
 USER_USERS
 USER_PROXIES
 USER_VIEWS
 USER_CONSTRAINTS

2) Toate tabelele create de userul current:

SQL> desc user_tables

Name	Null?	Type
-----	-----	-----
TABLE_NAME	NOT NULL	VARCHAR2(30)
TABLESPACE_NAME		VARCHAR2(30)
CLUSTER_NAME		VARCHAR2(30)
IOT_NAME		VARCHAR2(30)
PCT_FREE		NUMBER
PCT_USED		NUMBER
INI_TRANS		NUMBER
MAX_TRANS		NUMBER
INITIAL_EXTENT		NUMBER
NEXT_EXTENT		NUMBER
MIN_EXTENTS		NUMBER
MAX_EXTENTS		NUMBER
PCT_INCREASE		NUMBER
FREELISTS		NUMBER
FREELIST_GROUPS		NUMBER

LOGGING	VARCHAR2(3)
BACKED_UP	VARCHAR2(1)
NUM_ROWS	NUMBER
BLOCKS	NUMBER
EMPTY_BLOCKS	NUMBER
AVG_SPACE	NUMBER
CHAIN_CNT	NUMBER
AVG_ROW_LEN	NUMBER
AVG_SPACE_FREELIST_BLOCKS	NUMBER
NUM_FREELIST_BLOCKS	NUMBER
DEGREE	VARCHAR2(10)
INSTANCES	VARCHAR2(10)
CACHE	VARCHAR2(5)
TABLE_LOCK	VARCHAR2(8)
SAMPLE_SIZE	NUMBER
LAST_ANALYZED	DATE
PARTITIONED	VARCHAR2(3)
IOT_TYPE	VARCHAR2(12)
TEMPORARY	VARCHAR2(1)
SECONDARY	VARCHAR2(1)
NESTED	VARCHAR2(3)
BUFFER_POOL	VARCHAR2(7)
ROW_MOVEMENT	VARCHAR2(8)
GLOBAL_STATS	VARCHAR2(3)
USER_STATS	VARCHAR2(3)
DURATION	VARCHAR2(15)
SKIP_CORRUPT	VARCHAR2(8)
MONITORING	VARCHAR2(3)
CLUSTER_OWNER	VARCHAR2(30)
DEPENDENCIES	VARCHAR2(8)



SQL> select table_name from user_tables;

TABLE_NAME

BONUS

DEPT

EMP

SALGRADE

3) Vizualizare obiecte create de un user:

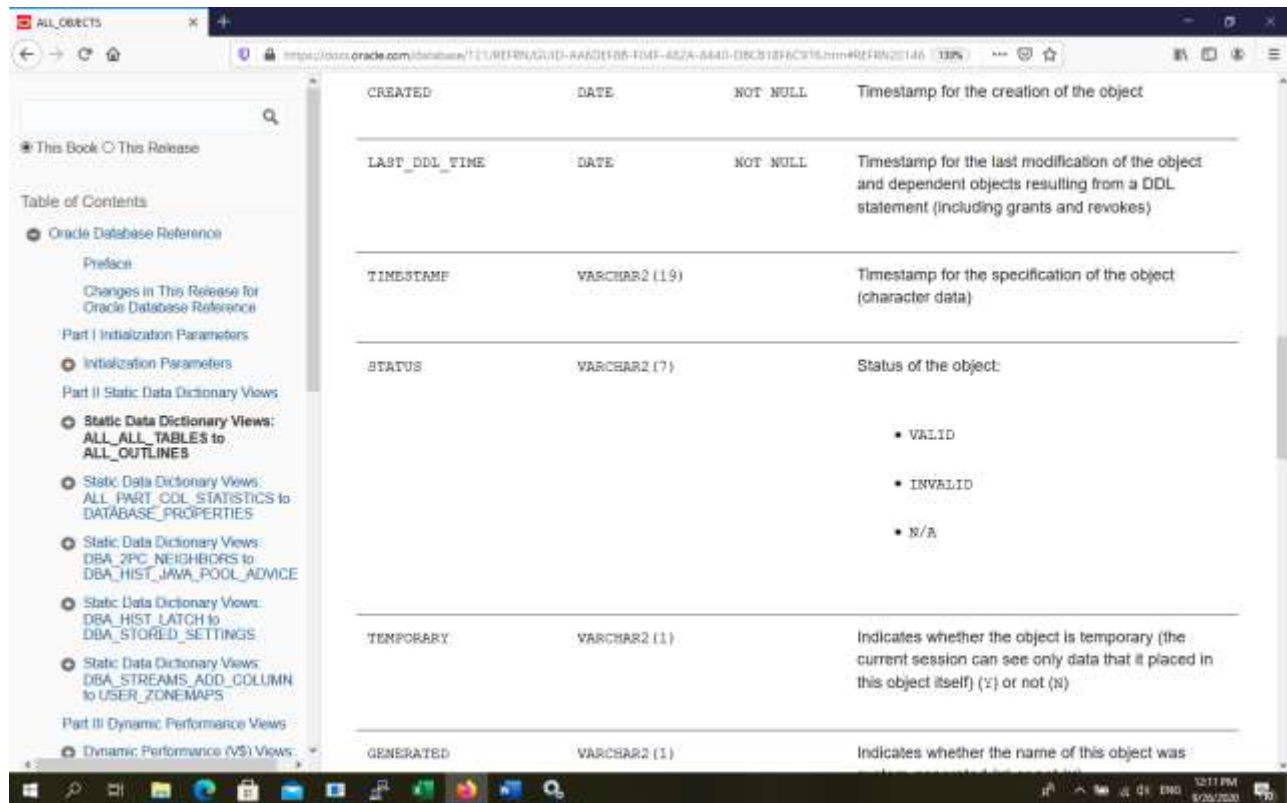
SQL> desc user_objects

Name	Null?	Type
OBJECT_NAME		VARCHAR2(128)
SUBOBJECT_NAME		VARCHAR2(30)
OBJECT_ID		NUMBER
DATA_OBJECT_ID		NUMBER
OBJECT_TYPE		VARCHAR2(18)
CREATED		DATE
LAST_DDL_TIME		DATE
TIMESTAMP		VARCHAR2(19)
STATUS		VARCHAR2(7)
TEMPORARY		VARCHAR2(1)
GENERATED		VARCHAR2(1)
SECONDARY		VARCHAR2(1)

The screenshot shows a web browser displaying the Oracle Database Reference page for the `USER_OBJECTS` view. The page title is "USER_OBJECTS describes all objects owned by the current user. This view does not display the OWNER column." Below the title is a table with the following columns: Column, Datatype, NULL, and Description.

Column	Datatype	NULL	Description
OWNER	VARCHAR2 (128)	NOT NULL	Owner of the object
OBJECT_NAME	VARCHAR2 (128)	NOT NULL	Name of the object
SUBOBJECT_NAME	VARCHAR2 (128)		Name of the subobject (for example, partition)
OBJECT_ID	NUMBER	NOT NULL	Dictionary object number of the object
DATA_OBJECT_ID	NUMBER		Dictionary object number of the segment that contains the object.
OBJECT_TYPE	VARCHAR2 (23)		Type of the object (such as TABLE, INDEX)

Note: OBJECT_ID and DATA_OBJECT_ID display data dictionary metadata. Do not confuse these numbers with the unique 16-byte object identifier (object ID) that Oracle Database assigns to row objects in object tables in the system.



SQL> select object_name from user_objects where object_name like 'TABLE';

OBJECT_NAME

BONUS

DEPT

EMP

SALGRADE

SQL> select object_name, object_type from user_objects;

OBJECT_NAME

BONUS

DEPT

DEPTNO_PK

EMP

SALGRADE

V_SAL

OBJECT_NAME

TABLE

TABLE

INDEX

TABLE

TABLE

VIEW

4) Adaugarea unei constrangeri de integritate pe o tabela:

SQL> alter table dept add constraint deptno_pk primary key (deptno);

Table altered.

```
SQL> alter table emp add constraint emp_fk foreign key (deptno) references dept(deptno);
```

Table altered.

5) Vizualizare toate constrangerile de integritate create de userul curent

```
SQL> desc user_constraints
```

Name	Null?	Type
-----	-----	-----
OWNER	NOT NULL	VARCHAR2(30)
CONSTRAINT_NAME	NOT NULL	VARCHAR2(30)
CONSTRAINT_TYPE		VARCHAR2(1)
TABLE_NAME	NOT NULL	VARCHAR2(30)
SEARCH_CONDITION		LONG
R_OWNER		VARCHAR2(30)
R_CONSTRAINT_NAME		VARCHAR2(30)
DELETE_RULE		VARCHAR2(9)
STATUS		VARCHAR2(8)
DEFERRABLE		VARCHAR2(14)
DEFERRED		VARCHAR2(9)
VALIDATED		VARCHAR2(13)
GENERATED		VARCHAR2(14)
BAD		VARCHAR2(3)
RELY		VARCHAR2(4)
LAST_CHANGE		DATE
INDEX_OWNER		VARCHAR2(30)
INDEX_NAME		VARCHAR2(30)
INVALID		VARCHAR2(7)
VIEW_RELATED		VARCHAR2(14)

ALL_CONSTRAINTS

https://docs.oracle.com/cd/B19306_01/server.102/b14217/advviews.1037.htm#1576022

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 - Oracle Enqueue Names
 - Statistics Descriptions

Related Views

- DBA_CONSTRAINTS** describes all constraint definitions in the database.
- USER_CONSTRAINTS** describes constraint definitions on tables in the current user's schema.

Column	Datatype	NULL	Description
OWNER	VARCHAR2 (30)	NOT NULL	Owner of the constraint definition
CONSTRAINT_NAME	VARCHAR2 (30)	NOT NULL	Name of the constraint definition
CONSTRAINT_TYPE	VARCHAR2 (1)		Type of constraint definition: <ul style="list-style-type: none"> C (check constraint on a table) P (primary key) U (unique key) R (referential integrity) V (with check option, on a view) O (with read only, on a view)

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ALL_CONSTRAINTS

https://docs.oracle.com/cd/B19306_01/server.102/b14217/advviews.1037.htm#1576022

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 - Statistics Descriptions

TABLE_NAME	VARCHAR2 (30)	NOT NULL	Name associated with the table (or view) with constraint definition
SEARCH_CONDITION	LONG		Text of search condition for a check constraint
R_OWNER	VARCHAR2 (30)		Owner of table referred to in a referential constraint
R_CONSTRAINT_NAME	VARCHAR2 (30)		Name of the unique constraint definition for referenced table
DELETE_RULE	VARCHAR2 (9)		Delete rule for a referential constraint (CASCADE or NO ACTION)
STATUS	VARCHAR2 (8)		Enforcement status of constraint (ENABLED or DISABLED)
DEFERRABLE	VARCHAR2 (14)		Whether the constraint is deferrable
DEFERRED	VARCHAR2 (5)		Whether the constraint was initially deferred
VALIDATED	VARCHAR2 (15)		Whether all data obeys the constraint (VALIDATED or NOT VALIDATED)
GENERATED	VARCHAR2 (14)		Whether the name of the constraint is user or system generated

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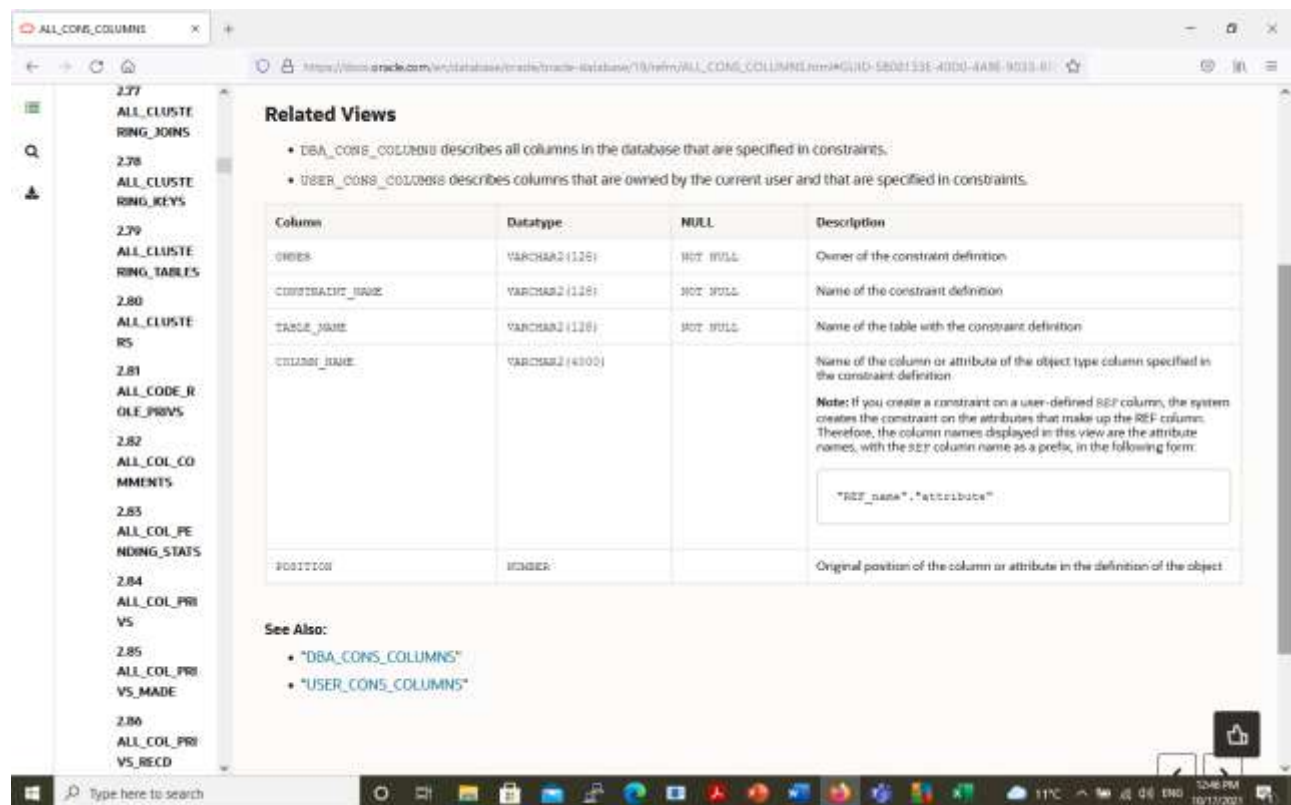
SQL> select owner,constraint_name,constraint_type, table_name from user_constraints;

OWNER	CONSTRAINT_NAME	C	TABLE_NAME
UBD1	DEPTNO_PK	P	DEPT
UBD1	EMP_FK	R	EMP

- 6) Vizualizarea constrangerilor de integritate create de userul curent si a coloanelor pe care sunt definite:

SQL> desc user_cons_columns

Name	Null?	Type
OWNER	NOT NULL	VARCHAR2(128)
CONSTRAINT_NAME	NOT NULL	VARCHAR2(128)
TABLE_NAME	NOT NULL	VARCHAR2(128)
COLUMN_NAME		VARCHAR2(4000)
POSITION		NUMBER



SQL> SELECT constraint_name,table_name, column_name
FROM user_cons_columns;

CONSTRAINT_NAME	TABLE_NAME	COLUMN_NAME
PK_DEPT	DEPT	DEPTNO
PK_EMP	EMP	EMPNO
FK_DEPTNO	EMP	DEPTNO
SYS_C0012685	ANGAJATI	ID_ANG

7) Vizualizare structura tabelara

SQL> desc user_tab_columns

Name	Null?	Type
TABLE_NAME	NOT NULL	VARCHAR2(30)
COLUMN_NAME	NOT NULL	VARCHAR2(30)
DATA_TYPE		VARCHAR2(106)
DATA_TYPE_MOD		VARCHAR2(3)
DATA_TYPE_OWNER		VARCHAR2(30)
DATA_LENGTH	NOT NULL	NUMBER
DATA_PRECISION		NUMBER
DATA_SCALE		NUMBER
NULLABLE		VARCHAR2(1)
COLUMN_ID		NUMBER
DEFAULT_LENGTH		NUMBER
DATA_DEFAULT		LONG
NUM_DISTINCT		NUMBER
LOW_VALUE		RAW(32)
HIGH_VALUE		RAW(32)
DENSITY		NUMBER
NUM_NULLS		NUMBER
NUM_BUCKETS		NUMBER
LAST_ANALYZED		DATE
SAMPLE_SIZE		NUMBER
CHARACTER_SET_NAME		VARCHAR2(44)
CHAR_COL_DECL_LENGTH		NUMBER
GLOBAL_STATS		VARCHAR2(3)
USER_STATS		VARCHAR2(3)
AVG_COL_LEN		NUMBER
CHAR_LENGTH		NUMBER
CHAR_USED		VARCHAR2(1)
V80_FMT_IMAGE		VARCHAR2(3)
DATA_UPGRADED		VARCHAR2(3)

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 - Dynamic Performance (V\$) Views: V\$ACCESS to V\$MASTER_INFO
 - Dynamic Performance (V\$) Views: V\$M_COLUMN_LEVEL to V\$ROLE_SET_AGGREGATE_STATS

Column	Datatype	NULL	Description
OWNER	VARCHAR2 (128)	NOT NULL	Owner of the table, view, or cluster
TABLE_NAME	VARCHAR2 (128)	NOT NULL	Name of the table, view, or cluster
COLUMN_NAME	VARCHAR2 (128)	NOT NULL	Column name
DATA_TYPE	VARCHAR2 (128)		Data type of the column
DATA_TYPE_MOD	VARCHAR2 (3)		Data type modifier of the column
DATA_TYPE_OWNER	VARCHAR2 (128)		Owner of the data type of the column
DATA_LENGTH	NUMBER	NOT NULL	Length of the column (in bytes)
DATA_PRECISION	NUMBER		Decimal precision for NUMBER data type; binary precision for FLOAT data type; NULL for all other data types
DATA_SCALE	NUMBER		Digits to the right of the decimal point in a number
NULLABLE	VARCHAR2 (1)		Indicates whether a column allows NULLs. The value is Y if there is a NOT NULL constraint on the column or if
COLUMN_ID	NUMBER		Sequence number of the column as created
DEFAULT_LENGTH	NUMBER		Length of the default value for the column
DATA_DEFAULT	LONG		Default value for the column
NUM_DISTINCT	NUMBER		Number of distinct values in the column ^{Footnote 1}
LOW_VALUE	RAW (1000)		Low value in the column ^{Footnote 1}
HIGH_VALUE	RAW (1000)		High value in the column ^{Footnote 1}
DENSITY	NUMBER		If a histogram is available on COLUMN_NAME, then this column displays the selectivity of a value that spans fewer than 2 endpoints in the histogram. If does not represent the selectivity of values that span 2 or more endpoints. If a histogram is not available on COLUMN_NAME, then the value of this column is 1/NUM_DISTINCT ^{Footnote 1}
NUM_NULLS	NUMBER		Number of NULLs in the column
NUM_BUCKETS	NUMBER		Number of buckets in the histogram for the column

```
SQL> select table_name,column_name,data_type from user_tab_columns
       where table_name='EMP';
```

TABLE_NAME	COLUMN_NAME	DATA_TYPE
EMP	EMPNO	NUMBER
EMP	ENAME	VARCHAR2
EMP	JOB	VARCHAR2
EMP	MGR	NUMBER
EMP	HIREDATE	DATE
EMP	SAL	NUMBER
EMP	COMM	NUMBER
EMP	DEPTNO	NUMBER

- 8) Tabele din dictionar care contin informatii despre obiectele proprii sau create de alti utilizatori, la care are acces utilizatorul curent:

```
SQL> select table_name from dictionary where table_name like 'ALL%';
```

TABLE_NAME
ALL_XML_SCHEMAS
ALL_XML_SCHEMAS2
ALL_CATALOG
ALL_CLUSTERS
ALL_COL_COMMENTS
ALL_COL_PRIVS
ALL_COL_PRIVS_MADE
ALL_COL_PRIVS_RECD
ALL_ENCRYPTED_COLUMNS
ALL_DB_LINKS
ALL_INDEXES
ALL_IND_COLUMNS
ALL_IND_EXPRESSIONS
ALL_JOIN_IND_COLUMNS
ALL_OBJECTS
ALL_PROCEDURES
ALL_ERRORS

- 9) Vizualizare obiecte proprii sau create de alti utilizatori la care are acces utilizatorul curent:

```
SQL> desc all_objects
```

Name	Null?	Type
OWNER	NOT NULL	VARCHAR2(30)
OBJECT_NAME	NOT NULL	VARCHAR2(30)
SUBOBJECT_NAME		VARCHAR2(30)
OBJECT_ID	NOT NULL	NUMBER
DATA_OBJECT_ID		NUMBER
OBJECT_TYPE		VARCHAR2(18)

CREATED
 LAST_DDL_TIME
 TIMESTAMP
 STATUS
 TEMPORARY
 GENERATED
 SECONDARY

NOT NULL DATE
 NOT NULL DATE
 VARCHAR2(19)
 VARCHAR2(7)
 VARCHAR2(1)
 VARCHAR2(1)
 VARCHAR2(1)

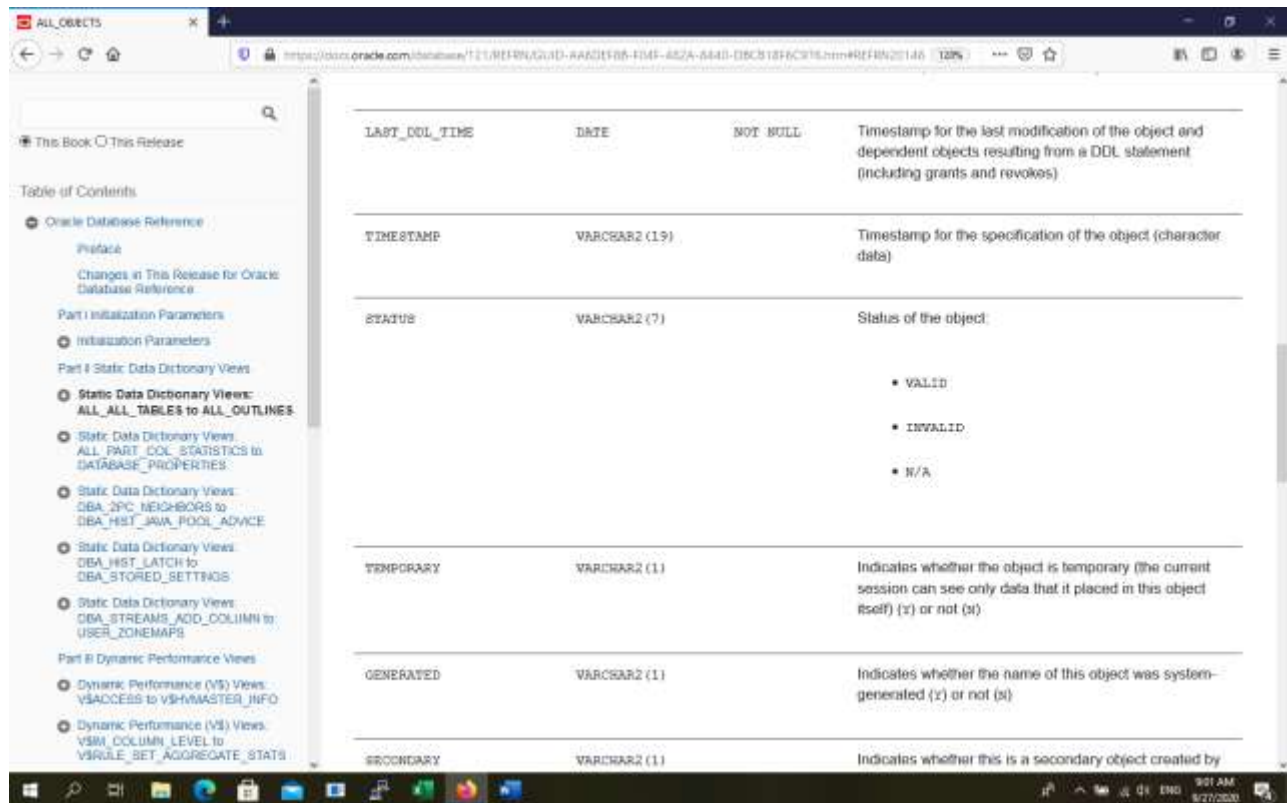
The screenshot shows the Oracle Database Reference documentation for the `DBA_OBJECTS` view. The left sidebar contains a Table of Contents with sections like 'Oracle Database Reference', 'Part I Initialization Parameters', and 'Part II Static Data Dictionary Views'. The main content area includes a description of the view and a table of its columns.

DBA_OBJECTS describes all objects in the database.

USER_OBJECTS describes all objects owned by the current user. This view does not display the owner column.

Column	Datatype	NULL	Description
OWNER	VARCHAR2(128)	NOT NULL	Owner of the object
OBJECT_NAME	VARCHAR2(128)	NOT NULL	Name of the object
SUBOBJECT_NAME	VARCHAR2(128)		Name of the subobject (for example, partition)
OBJECT_ID	NUMBER	NOT NULL	Dictionary object number of the object
DATA_OBJECT_ID	NUMBER		Dictionary object number of the segment that contains the object.
OBJECT_TYPE	VARCHAR2(23)		Type of the object (such as TABLE, INDEX)
CREATED	DATE	NOT NULL	Timestamp for the creation of the object

Note: `OBJECT_ID` and `DATA_OBJECT_ID` display data dictionary metadata. Do not confuse these numbers with the unique 16-byte object identifier (object ID) that Oracle Database assigns to row objects in object tables in the system.



SQL> select owner,object_name,object_type from all_objects where owner='SCOTT';

OWNER	OBJECT_NAME	OBJECT_TYPE
SCOTT	BONUS	TABLE
SCOTT	DEPT	TABLE
SCOTT	EMP	TABLE
SCOTT	PK_DEPT	INDEX
SCOTT	PK_EMP	INDEX
SCOTT	SALGRADE	TABLE
SCOTT	V_SAL	VIEW

10) Vizualizare toate tabelele din dictionar :

SQL> select table_name from dictionary where table_name like 'DBA%';

11) Vizualizare informatii despre userii creati pe baza de date

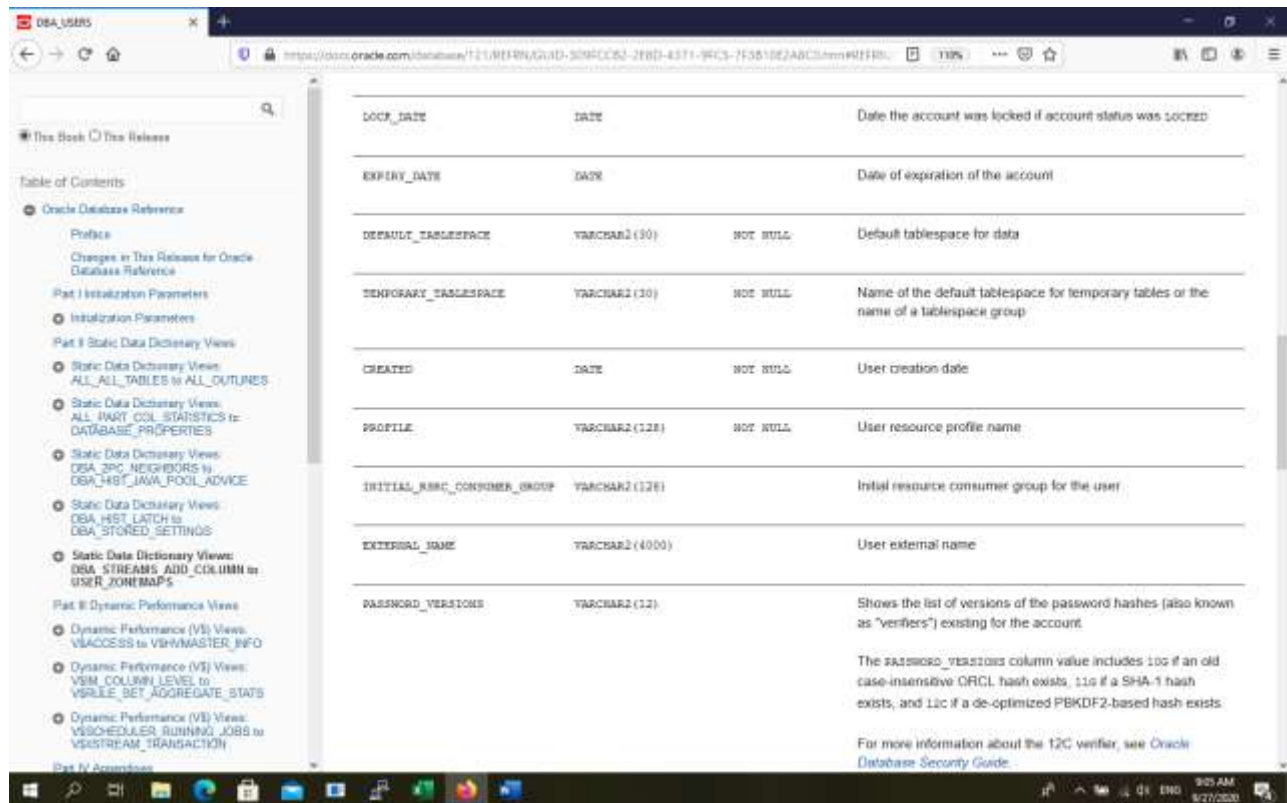
SQL> desc dba_users

Name	Null?	Type
USERNAME	NOT NULL	VARCHAR2(30)
USER_ID	NOT NULL	NUMBER
PASSWORD		VARCHAR2(30)

ACCOUNT_STATUS	NOT NULL VARCHAR2(32)
LOCK_DATE	DATE
EXPIRY_DATE	DATE
DEFAULT_TABLESPACE	NOT NULL VARCHAR2(30)
TEMPORARY_TABLESPACE	NOT NULL VARCHAR2(30)
CREATED	NOT NULL DATE
PROFILE	NOT NULL VARCHAR2(30)
INITIAL_RSRC_CONSUMER_GROUP	VARCHAR2(30)
EXTERNAL_NAME	VARCHAR2(4000)
PASSWORD_VERSIONS	VARCHAR2(12)
EDITIONS_ENABLED	VARCHAR2(1)
AUTHENTICATION_TYPE	VARCHAR2(8)
PROXY_ONLY_CONNECT	VARCHAR2(1)
COMMON	VARCHAR2(3)
LAST_LOGIN	TIMESTAMP(9) WITH TIME ZONE
ORACLE_MAINTAINED	VARCHAR2(1)

USER_USERS describes the current user. This view does not display the PASSWORD, PROFILE, PASSWORD_VERSIONS, EDITIONS_ENABLED, AUTHENTICATION_TYPE, and LAST_LOGIN columns.

Column	Datatype	NULL	Description
USERNAME	VARCHAR2(128)	NOT NULL	Name of the user
USER_ID	NUMBER	NOT NULL	ID number of the user
PASSWORD	VARCHAR2(4000)		This column is deprecated in favor of the AUTHENTICATION_TYPE column
ACCOUNT_STATUS	VARCHAR2(32)	NOT NULL	Account status: <ul style="list-style-type: none"> • OPEN • EXPIRED • EXPIRED (GRACE) • LOCKED (TIMED) • LOCKED • EXPIRED & LOCKED (TIMED) • EXPIRED (GRACE) & LOCKED (TIMED) • EXPIRED & LOCKED



SQL> select username,password from dba_users where username='SCOTT';

USERNAME

PASSWORD

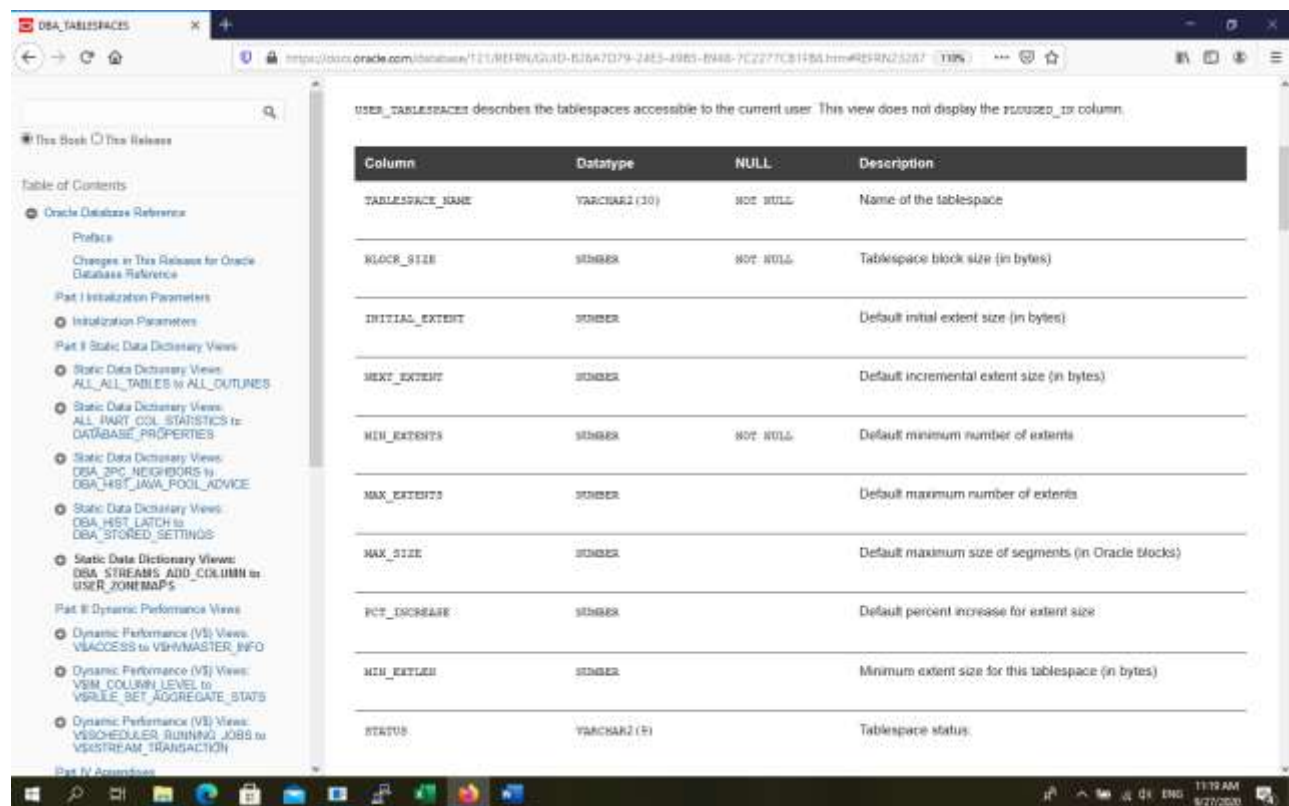
SCOTT

12) Vizualizare informatii despre tablespace-uri create pe baza de date

SQL> desc dba_tablespaces

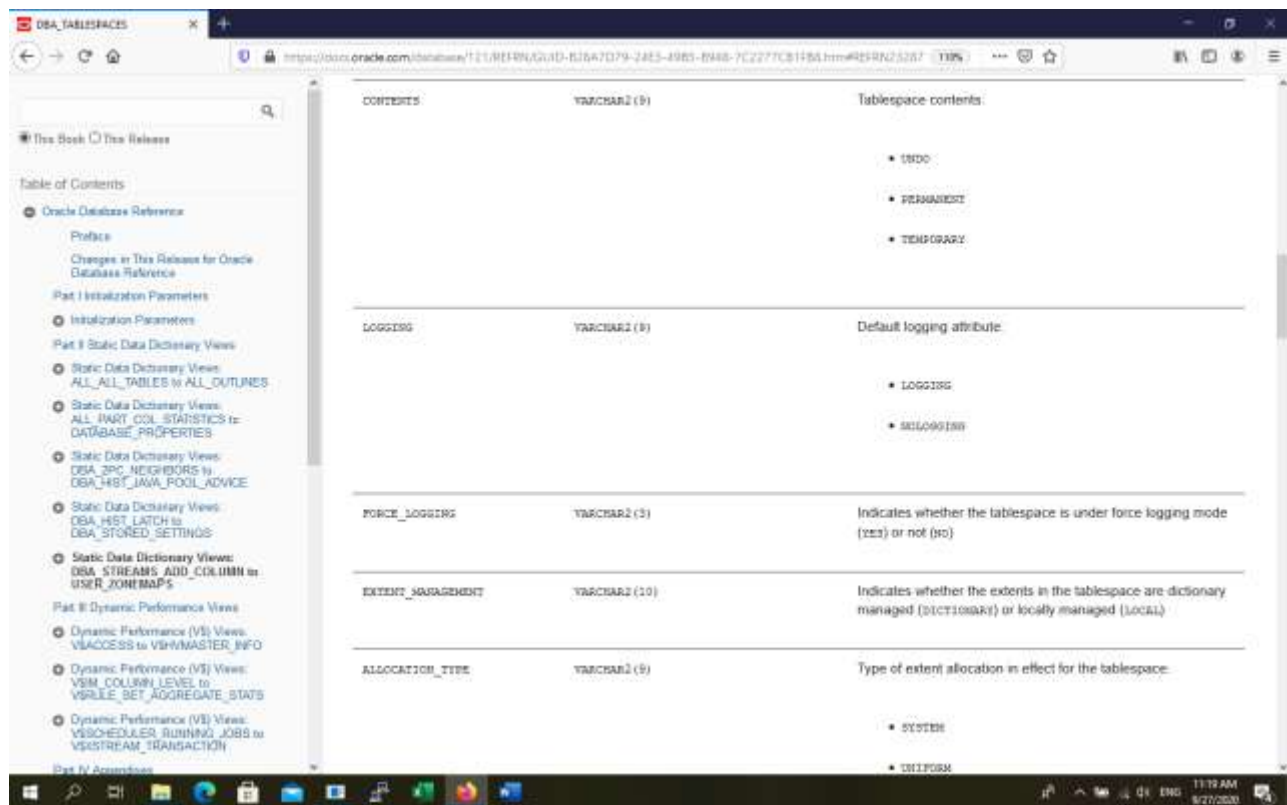
Name	Null?	Type
TABLESPACE_NAME	NOT NULL	VARCHAR2(30)
BLOCK_SIZE	NOT NULL	NUMBER
INITIAL_EXTENT		NUMBER
NEXT_EXTENT		NUMBER
MIN_EXTENTS	NOT NULL	NUMBER
MAX_EXTENTS		NUMBER
PCT_INCREASE		NUMBER
MIN_EXTLEN		NUMBER
STATUS		VARCHAR2(9)
CONTENTS		VARCHAR2(9)

LOGGING	VARCHAR2(9)
FORCE_LOGGING	VARCHAR2(3)
EXTENT_MANAGEMENT	VARCHAR2(10)
ALLOCATION_TYPE	VARCHAR2(9)
PLUGGED_IN	VARCHAR2(3)
SEGMENT_SPACE_MANAGEMENT	VARCHAR2(6)
DEF_TAB_COMPRESSION	VARCHAR2(8)
RETENTION	VARCHAR2(11)
BIGFILE	VARCHAR2(3)
PREDICATE_EVALUATION	VARCHAR2(7)
ENCRYPTED	VARCHAR2(3)
COMPRESS_FOR	VARCHAR2(30)
DEF_INMEMORY	VARCHAR2(8)
DEF_INMEMORY_PRIORITY	VARCHAR2(8)
DEF_INMEMORY_DISTRIBUTE	VARCHAR2(15)
DEF_INMEMORY_COMPRESSION	VARCHAR2(17)
DEF_INMEMORY_DUPLICATE	VARCHAR2(13)



USER_TABLESPACES describes the tablespaces accessible to the current user. This view does not display the `PLUGGED_IN` column.

Column	Datatype	NULL	Description
TABLESPACE_NAME	VARCHAR2(10)	NOT NULL	Name of the tablespace
BLOCK_SIZE	NUMBER	NOT NULL	Tablespace block size (in bytes)
INITIAL_EXTENT	NUMBER		Default initial extent size (in bytes)
NEXT_EXTENT	NUMBER		Default incremental extent size (in bytes)
MIN_EXTENTS	NUMBER	NOT NULL	Default minimum number of extents
MAX_EXTENTS	NUMBER		Default maximum number of extents
MAX_SIZE	NUMBER		Default maximum size of segments (in Oracle blocks)
PCT_INCREASE	NUMBER		Default percent increase for extent size
MIN_EXTLEN	NUMBER		Minimum extent size for this tablespace (in bytes)
STATUS	VARCHAR2(1)		Tablespace status



SQL> select tablespace_name,block_size,max_extents,status from dba_tablespaces;

TABLESPACE_NAME	BLOCK_SIZE	MAX_EXTENTS	STATUS
SYSTEM	8192	2147483645	ONLINE
UNDOTBS1	8192	2147483645	ONLINE
SYSAUX	8192	2147483645	ONLINE
TEMP	8192		ONLINE
USERS	8192	2147483645	ONLINE
EXAMPLE	8192	2147483645	ONLINE
BD_DATA	8192	2147483645	ONLINE
BD_TEMP	8192		ONLINE

8 rows selected.

13) Vizualizare informatii despre indcsi:

SQL> desc dba_indexes

Name	Null?	Type
OWNER	NOT NULL	VARCHAR2(30)
INDEX_NAME	NOT NULL	VARCHAR2(30)
INDEX_TYPE		VARCHAR2(27)
TABLE_OWNER	NOT NULL	VARCHAR2(30)

TABLE_NAME	NOT NULL	VARCHAR2(30)
TABLE_TYPE		VARCHAR2(11)
UNIQUENESS		VARCHAR2(9)
COMPRESSION		VARCHAR2(8)
PREFIX_LENGTH		NUMBER
TABLESPACE_NAME		VARCHAR2(30)
INI_TRANS		NUMBER
MAX_TRANS		NUMBER
INITIAL_EXTENT		NUMBER
NEXT_EXTENT		NUMBER
MIN_EXTENTS		NUMBER
MAX_EXTENTS		NUMBER
PCT_INCREASE		NUMBER
PCT_THRESHOLD		NUMBER
INCLUDE_COLUMN		NUMBER
FREELISTS		NUMBER
FREELIST_GROUPS		NUMBER
PCT_FREE		NUMBER
LOGGING		VARCHAR2(3)
BLEVEL		NUMBER
LEAF_BLOCKS		NUMBER
DISTINCT_KEYS		NUMBER
AVG_LEAF_BLOCKS_PER_KEY		NUMBER
AVG_DATA_BLOCKS_PER_KEY		NUMBER
CLUSTERING_FACTOR		NUMBER
STATUS		VARCHAR2(8)
NUM_ROWS		NUMBER
SAMPLE_SIZE		NUMBER
LAST_ANALYZED		DATE
DEGREE		VARCHAR2(40)
INSTANCES		VARCHAR2(40)
PARTITIONED		VARCHAR2(3)
TEMPORARY		VARCHAR2(1)
GENERATED		VARCHAR2(1)
SECONDARY		VARCHAR2(1)
BUFFER_POOL		VARCHAR2(7)
USER_STATS		VARCHAR2(3)
DURATION		VARCHAR2(15)
PCT_DIRECT_ACCESS		NUMBER
ITYP_OWNER		VARCHAR2(30)
ITYP_NAME		VARCHAR2(30)
PARAMETERS		VARCHAR2(1000)
GLOBAL_STATS		VARCHAR2(3)
DOMIDX_STATUS		VARCHAR2(12)
DOMIDX_OPSTATUS		VARCHAR2(6)
FUNCIDX_STATUS		VARCHAR2(8)

JOIN_INDEX
IOT_REDUNDANT_PKEY_ELIM
DROPPED

VARCHAR2(3)
VARCHAR2(3)
VARCHAR2(3)

The screenshot displays the Oracle Database Reference documentation for the `ALL_INDEXES` view. The interface includes a sidebar with a table of contents and a main content area with a table of columns and their descriptions.

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 - Dynamic Performance (V\$) Views: V\$SCHEDULER_RUNNING_JOBS to V\$SESSION_ROLE
 - Database Limits

Column Details:

Column	Datatype	NULL	Description
OWNER	VARCHAR2 (30)	NOT NULL	Owner of the index
INDEX_NAME	VARCHAR2 (30)	NOT NULL	Name of the index
INDEX_TYPE	VARCHAR2 (27)		Type of the index <ul style="list-style-type: none">NORMALNORMAL/REVBITMAPFUNCTION-BASED NORMALFUNCTION-BASED NORMAL/REVFUNCTION-BASED BITMAPCLUSTERIOCT - TOPDOMAIN

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 - Dynamic Performance (V\$) Views: V\$SCHEDULER_RUNNING_JOBS to V\$SESSION_ROLE
 - Database Limits

Column Details:

Column	Datatype	NULL	Description
TABLE_OWNER	VARCHAR2 (30)	NOT NULL	Owner of the indexed object
TABLE_NAME	VARCHAR2 (30)	NOT NULL	Name of the indexed object
TABLE_TYPE	CHAR (5)		Type of the indexed object: <ul style="list-style-type: none">NEXT OBJECTINDEXTABLECLUSTERVIEWSYNONYMSEQUENCE
UNIQUENESS	VARCHAR2 (9)		Indicates whether the index is unique (unique) or nonunique (nonunique)
COMPRESSION	VARCHAR2 (8)		Indicates whether index compression is enabled (ENABLED) or not (DISABLED)
PREFIX_LENGTH	NUMBER		Number of columns in the

```
SQL> select owner,index_name,index_type,table_name from dba_indexes
      where owner in ('SCOTT');
```

OWNER	INDEX_NAME	INDEX_TYPE	TABLE_NAME
SCOTT	STI_PK	NORMAL	STUDENTI
SCOTT	CAG_PK	NORMAL	CATALOG
SCOTT	DIE_PK	NORMAL	DISCIPLINE
SCOTT	PK_DEPT	NORMAL	DEPT
SCOTT	PK_EMP	NORMAL	EMP

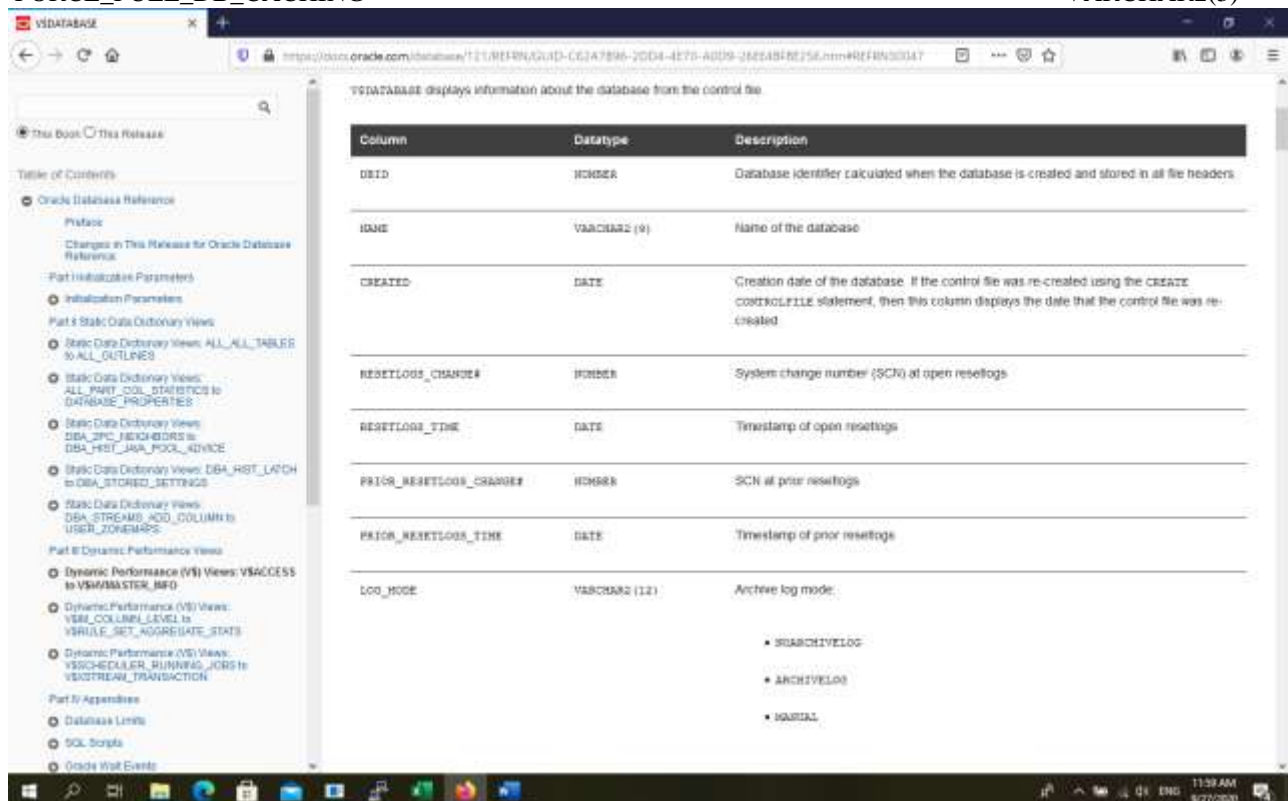
```
SQL> select index_name,index_type,table_name from user_indexes;
```

14) Vizualizare informatii despre baza de date:

```
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 (1)	Type of control file <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • MAXIMUM PROTECTION - Database is running in maximized protection mode • MAXIMUM AVAILABILITY - Database is running in maximized availability mode • RECOVERSTATION - 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

SQL> select dbid, name, created, log_mode, open_mode from v\$database;

DBID	NAME	CREATED	LOG_MODE	OPEN_MODE
-----	-----	-----	-----	-----
1981261066	BD	08-MAY-19	NOARCHIVELOG	READ WRITE

15) Vizualizare informatii despre fisirele de date folosind view-uri dinamice:

SQL> desc v\$datafile

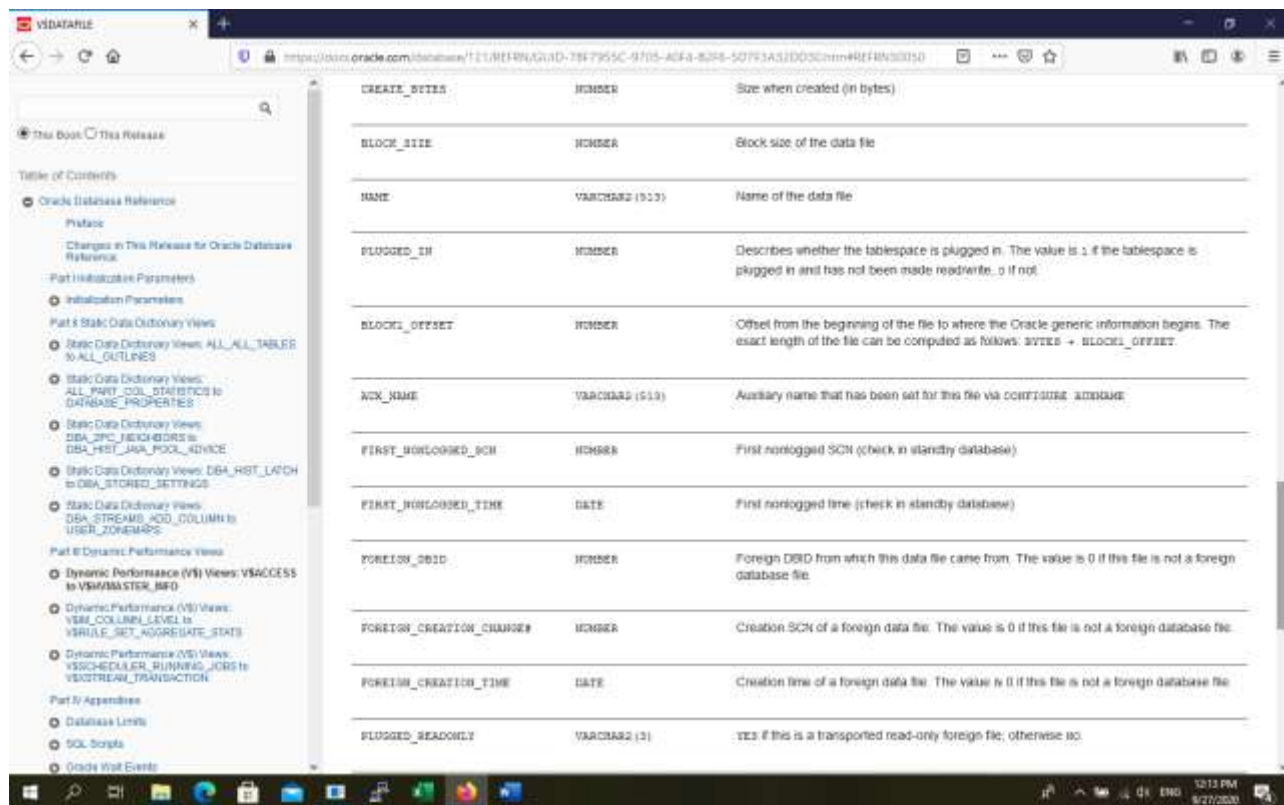
Name	Null?	Type
-----	-----	-----
FILE#		NUMBER
CREATION_CHANGE#		NUMBER
CREATION_TIME		DATE
TS#		NUMBER
RFILE#		NUMBER
STATUS		VARCHAR2(7)
ENABLED		VARCHAR2(10)
CHECKPOINT_CHANGE#		NUMBER
CHECKPOINT_TIME		DATE
UNRECOVERABLE_CHANGE#		NUMBER
UNRECOVERABLE_TIME		DATE
LAST_CHANGE#		NUMBER
LAST_TIME		DATE
OFFLINE_CHANGE#		NUMBER
ONLINE_CHANGE#		NUMBER
ONLINE_TIME		DATE
BYTES		NUMBER
BLOCKS		NUMBER
CREATE_BYTES		NUMBER
BLOCK_SIZE		NUMBER
NAME		VARCHAR2(513)
PLUGGED_IN		NUMBER
BLOCK1_OFFSET		NUMBER
AUX_NAME		VARCHAR2(513)
FIRST_NONLOGGED_SCN		NUMBER
FIRST_NONLOGGED_TIME		DATE
FOREIGN_DBID		NUMBER
FOREIGN_CREATION_CHANGE#		NUMBER
FOREIGN_CREATION_TIME		DATE
PLUGGED_READONLY		VARCHAR2(3)
PLUGIN_CHANGE#		NUMBER
PLUGIN_RESETLOGS_CHANGE#		NUMBER
PLUGIN_RESETLOGS_TIME		DATE
CON_ID		NUMBER

VSDATFILE displays datafile information from the control file.

See Also:
"VSDATFILE_HEADER", which displays information from data file headers.

Column	Datatype	Description
FILE#	NUMBER	File identification number
CREATION_CHANGE#	NUMBER	Change number at which the data file was created
CREATION_TIME	DATE	Timestamp of the data file creation
TS#	NUMBER	Tablespace number
RFILE#	NUMBER	Tablespace relative data file number
STATUS	VARCHAR2 (1)	Type of file (system or user) and its status. Values: OFFLINE, ONLINE, SYSTEM RECOVER, SYSOFF (an offline file from the system tablespace)
ENABLED	VARCHAR2 (10)	Describes how accessible the file is from SQL. <ul style="list-style-type: none"> DISABLED - No SQL access allowed READ ONLY - No SQL updates allowed READ WRITE - Full access allowed UNKNOWN - Unknown whether SQL updates would be allowed or not

CHECKPOINT_CHANGE#	NUMBER	SCN at last checkpoint
CHECKPOINT_TIME	DATE	Timestamp of the checkpoint
UNRECOVERABLE_CHANGE#	NUMBER	Last unrecoverable change number made to this data file. If the database is in ARCHIVELOG mode, then this column is updated when an unrecoverable operation completes. If the database is not in ARCHIVELOG mode, this column does not get updated.
UNRECOVERABLE_TIME	DATE	Timestamp of the last unrecoverable change. This column is updated only if the database is in ARCHIVELOG mode.
LAST_CHANGE#	NUMBER	Last change number made to this data file (null if the data file is being changed)
LAST_TIME	DATE	Timestamp of the last change
OFFLINE_CHANGE#	NUMBER	Offline change number of the last offline range. This column is updated only when the data file is brought online.
ONLINE_CHANGE#	NUMBER	Online change number of the last offline range
ONLINE_TIME	DATE	Online timestamp of the last offline range
BYTES	NUMBER	Current data file size (in bytes); 0 if inaccessible
BLOCKS	NUMBER	Current data file size (in blocks); 0 if inaccessible



```
SQL> select file#, name, creation_time, status from v$datafile ;
```

```

FILE#
-----
NAME
-----
CREATION_TIME    STATUS
-----
1
D:\ORACLE12C_DB\ORADATA\BD\SYSTEM01.DBF
11-SEP-14        SYSTEM

3
D:\ORACLE12C_DB\ORADATA\BD\SYSAUX01.DBF
11-SEP-14        ONLINE

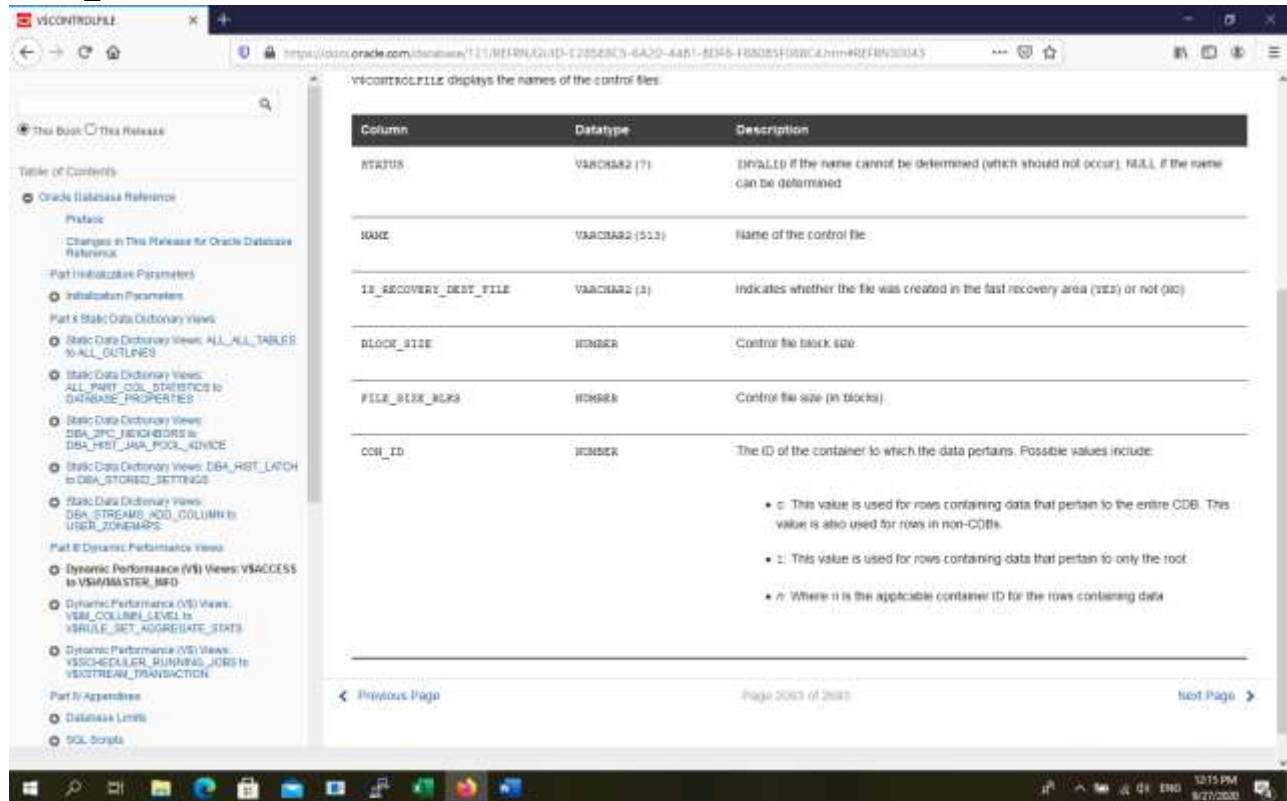
```

16) Vizualizare informatii despre fisierele de control folosind 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_BKLS	NUMBER
CON_ID	NUMBER



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

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

17) Vizualizare informatii despre instanta folosind view-uri dinamice:

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
 PARALLEL
 THREAD#
 ARCHIVER
 LOG_SWITCH_WAIT
 LOGINS
 SHUTDOWN_PENDING
 DATABASE_STATUS
 INSTANCE_ROLE
 ACTIVE_STATE
 BLOCKED
 CON_ID
 INSTANCE_MODE
 EDITION
 FAMILY

VARCHAR2(12)
 VARCHAR2(3)
 NUMBER
 VARCHAR2(7)
 VARCHAR2(15)
 VARCHAR2(10)
 VARCHAR2(3)
 VARCHAR2(17)
 VARCHAR2(18)
 VARCHAR2(9)
 VARCHAR2(3)
 NUMBER
 VARCHAR2(11)
 VARCHAR2(7)
 VARCHAR2(80)

The screenshot shows the Oracle Database Health Assistant (DBHA) interface. The left sidebar contains a 'Table of Contents' with various links. The main content area displays the 'V\$INSTANCE' view, which shows the state of the current instance. The table has columns for 'Column', 'Datatype', and 'Description'.

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(18)	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 <ul style="list-style-type: none"> STARTED - After STARTUP MOUNT MOUNTED - After STARTUP MOUNT or ALTER DATABASE CLOSE OPEN - After STARTUP or ALTER DATABASE OPEN OPEN (MIGRATE) - After ALTER DATABASE OPEN UPGRADE DOWNGRADE
FAILOVER	VARCHAR2(3)	Indicates whether the instance is mounted in cluster database mode (YES) or not (NO)
THREAD#	NUMBER	Redo thread opened by the instance
ARCHIVED	VARCHAR2(1)	Automatic archiver status

Oracle Database Reference

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ARCHIVER

ARCHIVELOG (1)

Automatic archiving status

- STOPPED
- STARTED
- FAILED - Archiver failed to archive a log last time but will try again within 5 minutes

LOG_SWITCH_WAIT

ARCHIVELOG (1)

Event that log switching is waiting for

- ARCHIVE LOG
- CLEAR LOG
- DMONPOINT
- FAIL - ALTER SYSTEM SWITCH LOGFILE is hung but there is room in the current online redo log

LOGGING

ARCHIVELOG (1)

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

ARCHIVELOG (1)

Indicates whether a shutdown is pending (YES) or not (NO)

DATABASE_STATUS

ARCHIVELOG (1)

Status of the database

- ACTIVE
- SUSPENDED
- INSTANCE RECOVERY

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INSTANCE_ROLE

ARCHIVELOG (1)

Indicates whether the instance is an active instance (PRIMARY_INSTANCE), or an inactive secondary instance (SECONDARY_INSTANCE), or SHUTDOWN if the instance has been started but not mounted

ACTIVE_STATE

ARCHIVELOG (1)

Quiesce state of the instance

- NORMAL - Database is in a normal state
- QUIESCING - ALTER SYSTEM QUIESCE RESTRICTED has been issued; no new user transactions, queries, or PL/SQL statements are processed in this instance. User transactions, queries, or PL/SQL statements issued before the ALTER SYSTEM QUIESCE RESTRICTED statement are unaffected. DBA transactions, queries, or PL/SQL statements are also unaffected.
- QUIESCED - ALTER SYSTEM QUIESCE RESTRICTED has been issued; no user transactions, queries, or PL/SQL statements are processed. DBA transactions, queries, or PL/SQL statements issued after the ALTER SYSTEM QUIESCE RESTRICTED statement are not processed.

A single ALTER SYSTEM QUIESCE RESTRICTED statement quiesces all instances in an Oracle RAC environment. After this statement has been issued, some instances may enter into a quiesced state before other instances; the system is quiesced when all instances enter the quiesced state.

BLOCKED

ARCHIVELOG (1)

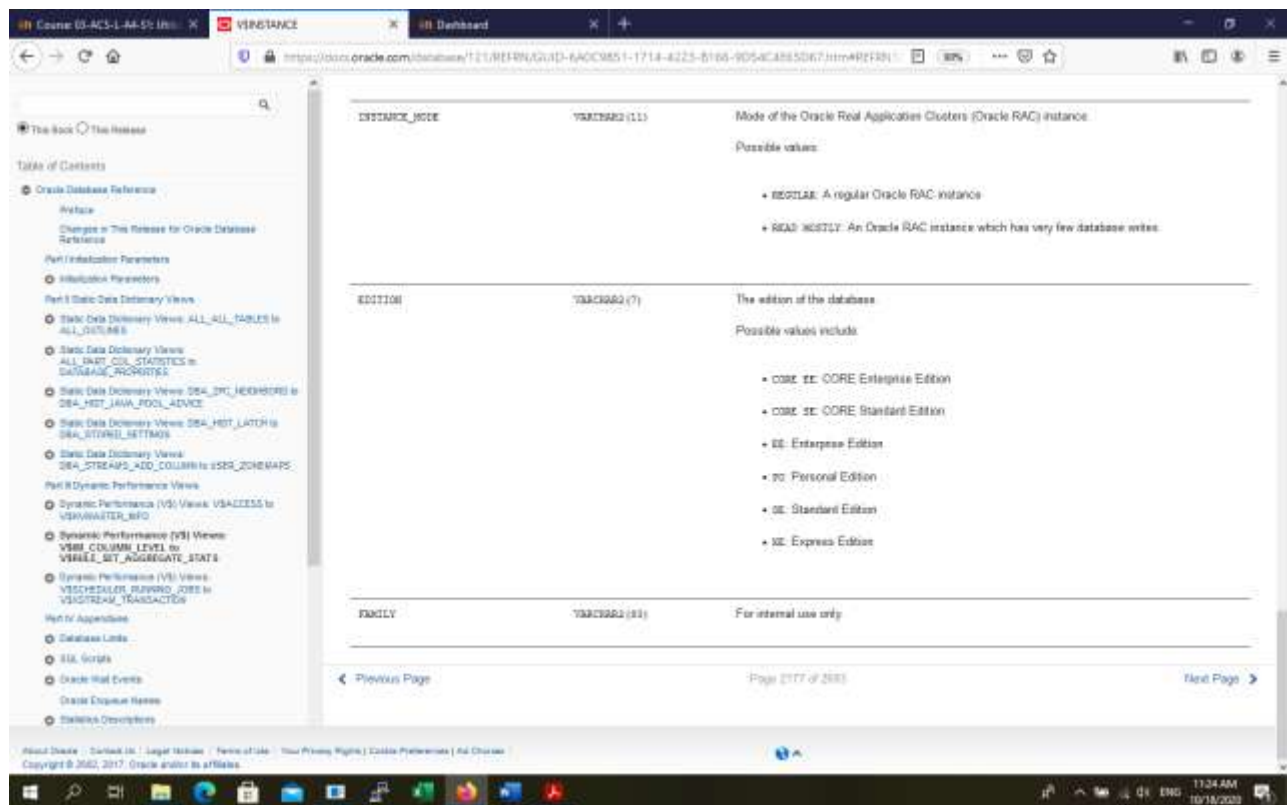
Indicates whether all services are blocked (YES) or not (NO)

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.



SQL> select instance_number,instance_name, to_char(startup_time, 'dd-mm-yyyy hh:mi:ss'), status from v\$instance;

INSTANCE_NUMBER	INSTANCE_NAME	TO_CHAR(STARTUP_TIM	STATUS
1	ubd	17-10-2020 11:32:30	OPEN

18) Vizualizare informatii despre parametrii de sistem folosind view-uri dinamice:

SQL> desc v\$parameter

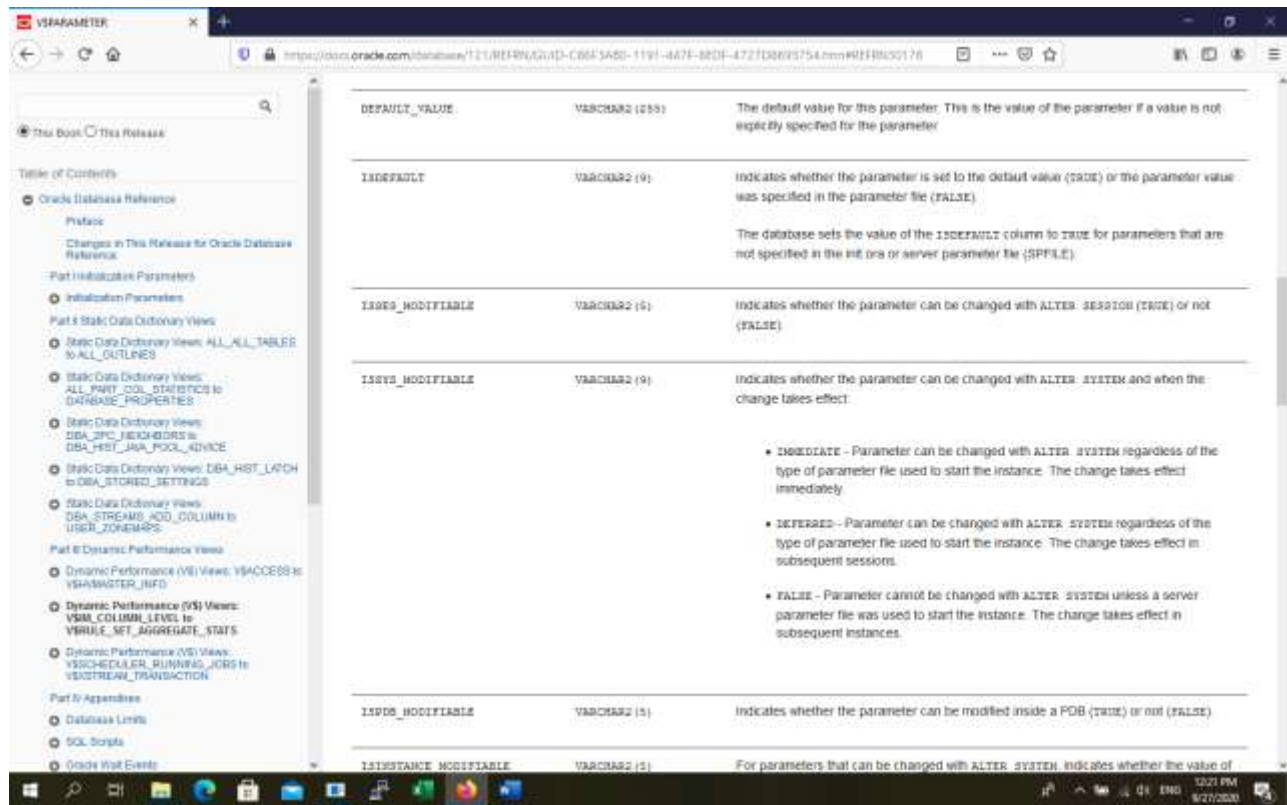
Name	Null?	Type
NUM		NUMBER
NAME		VARCHAR2(80)
TYPE		NUMBER
VALUE		VARCHAR2(4000)
DISPLAY_VALUE		VARCHAR2(4000)
DEFAULT_VALUE		VARCHAR2(255)
ISDEFAULT		VARCHAR2(9)
ISSES_MODIFIABLE		VARCHAR2(5)
ISSYS_MODIFIABLE		VARCHAR2(9)
ISPDB_MODIFIABLE		VARCHAR2(5)
ISINSTANCE_MODIFIABLE		VARCHAR2(5)

ISMODIFIED
 ISADJUSTED
 ISDEPRECATED
 ISBASIC
 DESCRIPTION
 UPDATE_COMMENT
 HASH
 CON_ID

VARCHAR2(10)
 VARCHAR2(5)
 VARCHAR2(5)
 VARCHAR2(5)
 VARCHAR2(255)
 VARCHAR2(255)
 NUMBER
 NUMBER

V\$PARAMETER displays information about the initialization parameters that are currently in effect for the session. A new session inherits parameter values from the instance-wide values displayed by the V\$SYSTEM_PARAMETER view.

Column	Datatype	Description
IDN	NUMBER	Parameter number
NAME	VARCHAR2 (80)	Name of the parameter
TYPE	NUMBER	Parameter type: <ul style="list-style-type: none"> 1 - Boolean 2 - String 3 - Integer 4 - Parameter file 5 - Reserved 6 - Big integer
VALUE	VARCHAR2 (4000)	Parameter value for the session (if modified within the session); otherwise, the instance-wide parameter value
DISPLAY_VALUE	VARCHAR2 (4000)	Parameter value in a user-friendly format. For example, if the VALUE column shows the value 243144 for a big integer parameter, then the DISPLAY_VALUE column will show the value 298K.



SQL> select name,value from v\$parameter where name like '%file%';

NAME

VALUE

spfile

D:\ORACLE12C_DB\PRODUCT\12.1.0\DBHOME_1\DATABASE\SPFILEBD.ORA

control_files

D:\ORACLE12C_DB\ORADATA\BD\CONTROL01.CTL,

D:\ORACLE12C_DB\ORADATA\BD\CONTROL02.CTL

19) Vizualizare informatii despre parametrii de sistem folosind comanda SHOW:

SQL> show parameters

NAME	TYPE	VALUE
-----	-----	-----
service_names	string	BD
session_max_open_files	integer	10
sessions	integer	472
sga_max_size	big integer	1648M
skip_unusable_indexes	boolean	TRUE

sort_area_retained_size	integer	0
sort_area_size	integer	65536
spatial_vector_acceleration	boolean	FALSE
spfile	string	D:\ORACLE12C_DB\PRODUCT\12.1.0 \DBHOME_1\DATABASE\SPFILEBD.ORA

Exercitii:

1. Sa se creeze unicitate pe o coloana din tabela dept apoi sa se verifice in dictionar daca a fost creata constrangerea.
2. Sa se creeze un index pe tabela emp apoi sa se faca o lista cu numele indecsilor creati pe tabelele din userul curent, tipul lor si numele tabelelor pe care au fost creati.
3. Sa se faca o lista cu numele userului curent si tablespace-ul in care userul isi creeaza tabelele.
4. Aratati din dictionar numele bazei de date si data cand au fost create fisierele de control asiguate la baza de date curenta.
5. Aratati din dictionar care este dimensiunea standard a blocului de date pentru baza de date curenta.