

Practica dirigida base de datos

1. Comprobar las variables de entorno necesarias para conectarnos a la BD.

```
SQL> var OHM varchar2(100);
SQL> EXEC dbms_system.get_env('ORACLE_HOME', :OHM);

PL/SQL procedure successfully completed.

SQL> PRINT OHM

OHM
-----
C:\oraclexe\app\oracle\product\11.2.0\server
```

2. Identificar los procesos que componen instancia.

```
SQL> select username,program from v$process
2  where background is not null;
```

USERNAME	PROGRAM
SYSTEM	ORACLE.EXE (PMON)
SYSTEM	ORACLE.EXE (PSP0)
SYSTEM	ORACLE.EXE (VKTM)
SYSTEM	ORACLE.EXE (GEN0)
SYSTEM	ORACLE.EXE (DIAG)
SYSTEM	ORACLE.EXE (DBRM)
SYSTEM	ORACLE.EXE (DIA0)
SYSTEM	ORACLE.EXE (MMAN)
SYSTEM	ORACLE.EXE (DBW0)
SYSTEM	ORACLE.EXE (LGWR)
SYSTEM	ORACLE.EXE (CKPT)

USERNAME	PROGRAM
SYSTEM	ORACLE.EXE (SMON)
SYSTEM	ORACLE.EXE (RECO)
SYSTEM	ORACLE.EXE (MMON)
SYSTEM	ORACLE.EXE (MMNL)
SYSTEM	ORACLE.EXE (W000)
SYSTEM	ORACLE.EXE (VKRM)
SYSTEM	ORACLE.EXE (QMNC)
SYSTEM	ORACLE.EXE (CJQ0)
SYSTEM	ORACLE.EXE (Q001)
SYSTEM	ORACLE.EXE (SMCO)
SYSTEM	ORACLE.EXE (Q002)

22 rows selected.

```
SQL> select name,description from v$process a, v$bgprocess b
2 where a.ADDR=b.PADDR;
```

NAME	DESCRIPTION
------	-------------

PMON	process cleanup
PSP0	process spawner 0
VKTM	Virtual Keeper of TiMe process
GEN0	generic0
DIAG	diagnosibility process
DBRM	DataBase Resource Manager
DIA0	diagnosibility process 0
MMAN	Memory Manager
DBW0	db writer process 0
LGWR	Redo etc.
CKPT	checkpoint

NAME	DESCRIPTION
------	-------------

SMON	System Monitor Process
RECO	distributed recovery
MMON	Manageability Monitor Process
MMNL	Manageability Monitor Process 2
VKRM	Virtual sKeduler for Resource Manager
QMNC	AQ Coordinator
CJQ0	Job Queue Coordinator
SMCO	Space Manager Process

19 rows selected.

3. Ver el tamaño de la SGA de la BD y las cachés que la componen.

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

NAME	BYTES	RES
Fixed SGA Size	2260048	No
Redo Buffers	5517312	No
Buffer Cache Size	444596224	Yes
Shared Pool Size	176160768	Yes
Large Pool Size	4194304	Yes
Java Pool Size	4194304	Yes
Streams Pool Size	0	Yes
Shared IO Pool Size	0	Yes
Granule Size	4194304	No
Maximum SGA Size	1068937216	No
Startup overhead in Shared Pool	75497472	No

NAME	BYTES	RES
Free SGA Memory Available	432013312	

```
12 rows selected.
```

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

POOL	NAME	BYTES
	fixed_sga	2260048
	buffer_cache	444596224
	log_buffer	5517312
shared pool	v_inc_meter_info_problem	664
shared pool	dpslut_kfdsg	512
shared pool	hot latch diagnostics	160
shared pool	vips_package_file	1320
shared pool	kkj jobq wor	4128
shared pool	ENQUEUE STATS	21600
shared pool	transaction	486728
shared pool	vem_user_actlog	664

POOL	NAME	BYTES
shared pool	Wait History Array	8
shared pool	vproblem_bucket	848
shared pool	vnot_exist_incident	3200
shared pool	KCB buffer wait statistic	3352
shared pool	invalid low rba queue	2048
shared pool	KQF optimizer stats table	1864
shared pool	KWQDL SGA Ddtc gen cleanu	48
shared pool	KCB tablespace encryption	760
shared pool	ksunfy: system-global sta	5200
shared pool	DISPATCHERS INFO	2496
shared pool	vips_file_metadata	944

POOL	NAME	BYTES
shared pool	vips_file_copy_log	1696
shared pool	v_ipsprbcnt	664
shared pool	vproblem_int	2448
shared pool	SQLA	25818536
shared pool	PLDIA	2917488
shared pool	vtest_exists	1040
shared pool	PRTDS	33480
shared pool	kzekm heap descriptor	304
shared pool	kelt translation table	360
shared pool	VM OSD context	96
shared pool	DDE_USER_ACTION_DEF	1320

...

POOL	NAME	BYTES
shared pool	time manager context	40
shared pool	kscdnfyinitflags	8
shared pool	KTCTSNL freelists	88
shared pool	KGI Session State	944
shared pool	kxfpdp pointers	28800
shared pool	KFG state obj	7032
shared pool	kzsrs filename	536
shared pool	INC_METER_IMPT_DEF	1040
shared pool	INC_METER_PK_IMPTS	1040
shared pool	vips_package_main_int	664
shared pool	dirty object counts array	2097152

POOL	NAME	BYTES
shared pool	distributed_transactions-	16168
shared pool	KGSK scheduler	45504
shared pool	ksdhng: cbuf	32768
shared pool	KTI latches	576
shared pool	KKJ WRK LAT	480
shared pool	HM_RECOMMENDATION	2072
shared pool	kfkshsh_kfdsg	4104
shared pool	Wait History Segment	178880
shared pool	IPS_FILE_METADATA	944
shared pool	IPS_PROGRESS_LOG	1320
shared pool	INC_METER_CONFIG	1224

POOL	NAME	BYTES
shared pool	event statistics ptr arra	1376
shared pool	KGKP randnum	40000
large pool	PX msg pool	3894304
large pool	free memory	300000
java pool	free memory	4194304

863 rows selected.

4. Comprobar valores de parámetros del init relacionados con el tamaño de la SGA.

```
SQL> show parameter db_block_size
```

NAME	TYPE	VALUE
db_block_size	integer	8192

```
SQL> show parameter sga_target
```

NAME	TYPE	VALUE
sga_target	big integer	0

```
SQL> show parameter sga_max_size
```

NAME	TYPE	VALUE
sga_max_size	big integer	1G

```
SQL> show parameter log_buffer
```

NAME	TYPE	VALUE
log_buffer	integer	5246976

```
SQL> show parameter shared_pool_size
```

NAME	TYPE	VALUE
shared_pool_size	big integer	0

```
SQL> show parameter db_cache_size
```

NAME	TYPE	VALUE
db_cache_size	big integer	0

```
SQL> show parameter large_pool_size
```

NAME	TYPE	VALUE
large_pool_size	big integer	0

```
SQL> show parameter java_pool_size
```

NAME	TYPE	VALUE
java_pool_size	big integer	0

```
SQL>
```

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

NAME	BYTES	RES
-----	-----	---
Fixed SGA Size	2260048	No
Redo Buffers	5517312	No
Buffer Cache Size	444596224	Yes
Shared Pool Size	176160768	Yes
Large Pool Size	4194304	Yes
Java Pool Size	4194304	Yes
Streams Pool Size	0	Yes
Shared IO Pool Size	0	Yes
Granule Size	4194304	No
Maximum SGA Size	1068937216	No
Startup overhead in Shared Pool	75497472	No

NAME	BYTES	RES
-----	-----	---
Free SGA Memory Available	432013312	

```
12 rows selected.
```

```
SQL> select rpad(component,30),CURRENT_SIZE,USER_SPECIFIED_SIZE,min_size
2 from V$SGA_DYNAMIC_COMPONENTS;
```

```
RPAD(COMPONENT,30)
```

```
-----
CURRENT_SIZE USER_SPECIFIED_SIZE MIN_SIZE
-----
```

```
shared pool
176160768 0 176160768
```

```
large pool
4194304 0 4194304
```

```
java pool
4194304 0 4194304
```

```
RPAD(COMPONENT,30)
```

```
-----
CURRENT_SIZE USER_SPECIFIED_SIZE MIN_SIZE
-----
```

```
streams pool
0 0 0
```

```
DEFAULT buffer cache
444596224 0 444596224
```

```
KEEP buffer cache
0 0 0
```



```

RPAD(COMPONENT,30)
-----
CURRENT_SIZE USER_SPECIFIED_SIZE MIN_SIZE
-----
RECYCLE buffer cache
          0                0          0

DEFAULT 2K buffer cache
          0                0          0

DEFAULT 4K buffer cache
          0                0          0

RPAD(COMPONENT,30)
-----
CURRENT_SIZE USER_SPECIFIED_SIZE MIN_SIZE
-----
DEFAULT 8K buffer cache
          0                0          0

DEFAULT 16K buffer cache
          0                0          0

DEFAULT 32K buffer cache
          0                0          0

RPAD(COMPONENT,30)
-----
CURRENT_SIZE USER_SPECIFIED_SIZE MIN_SIZE
-----
Shared IO Pool
          0                0          0

ASM Buffer Cache
          0                0          0

14 rows selected.

Elapsed: 00:00:00.70

```

5. Comprobar ficheros que componen la BD y ubicarlos en la estructura OFA.

```
SQL> select * from v$datafile
2 ;
```

FILE#	CREATION_CHANGE#	CREATION	TS#	RFILE#	STATUS	ENABLED
CHECKPOINT_CHANGE#	CHECKPOI	UNRECOVERABLE_CHANGE#	UNRECOVE	LAST_CHANGE#	LAST_TIM	
OFFLINE_CHANGE#	ONLINE_CHANGE#	ONLINE_T	BYTES	BLOCKS	CREATE_BYTES	
BLOCK_SIZE						
NAME						
PLUGGED_IN	BLOCK1_OFFSET					
AUX_NAME						
FIRST_NONLOGGED_SCN	FIRST_NO	FOREIGN_DBID	FOREIGN_CREATION_CHANGE#	FOREIGN_PLU		
PLUGIN_CHANGE#	PLUGIN_RESETLOGS_CHANGE#	PLUGIN_R				
1	8	29/05/14	0	1	SYSTEM	READ WRITE

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

FILE#	CREATION_CHANGE#	CREATION	TS#	RFILE#	STATUS	ENABLED
BYTES	BLOCKS	CREATE_BYTES	BLOCK_SIZE			
NAME						
1	371064	26/05/20	3	1	ONLINE	READ WRITE
20971520	2560	20971520	8192			

C:\ORACLE\EXE\APP\ORACLE\ORADATA\XE\TEMP.DBF

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

```
GROUP# STATUS  TYPE
-----
MEMBER
```

```
IS_
---
```

```
2 ONLINE
C:\ORACLEXE\APP\ORACLE\FAST_RECOVERY_AREA\XE\ONLINELOG\O1_MF_2_HDSF701V_.LOG
YES
```

```
1 ONLINE
C:\ORACLEXE\APP\ORACLE\FAST_RECOVERY_AREA\XE\ONLINELOG\O1_MF_1_HDSF7NRN_.LOG
YES
```

```
GROUP# STATUS  TYPE
-----
MEMBER
```

```
IS_
---
```

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

```
GROUP# STATUS  TYPE
-----
MEMBER
```

```
IS_
---
```

```
2 ONLINE
C:\ORACLEXE\APP\ORACLE\FAST_RECOVERY_AREA\XE\ONLINELOG\O1_MF_2_HDSF701V_.LOG
YES
```

```
1 ONLINE
C:\ORACLEXE\APP\ORACLE\FAST_RECOVERY_AREA\XE\ONLINELOG\O1_MF_1_HDSF7NRN_.LOG
YES
```

```
GROUP# STATUS  TYPE
-----
MEMBER
```

```
IS_
---
```

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

```
STATUS
-----
NAME
```

```
IS_ BLOCK_SIZE FILE_SIZE_BLK
-----
```

```
C:\ORACLEXE\APP\ORACLE\ORADATA\XE\CONTROL.DBF
NO 16384 594
```

6. Identificar la estructura lógica de la BD: tablespaces, segmentos, extensiones.

```
SQL> select tablespace_name from dba_tablespaces
2 order by tablespace_name;
```

TABLESPACE_NAME

SYSAUX

SYSTEM

TEMP

UNDOTBS1

USERS

```
SQL>
SQL> select tablespace_name,file_name from dba_data_files
2 order by tablespace_name, file_name;
```

TABLESPACE_NAME

FILE_NAME

SYSAUX

C:\ORACLEXE\APP\ORACLE\ORADATA\XE\SYSAUX.DBF
--

SYSTEM

C:\ORACLEXE\APP\ORACLE\ORADATA\XE\SYSTEM.DBF
--

UNDOTBS1

C:\ORACLEXE\APP\ORACLE\ORADATA\XE\UNDOTBS1.DBF
--

TABLESPACE_NAME

FILE_NAME

USERS

C:\ORACLEXE\APP\ORACLE\ORADATA\XE\USERS.DBF

```
SQL>
SQL> select tablespace_name,file_name from dba_temp_files
2 order by tablespace_name, file_name;
```

TABLESPACE_NAME

FILE_NAME

TEMP

C:\ORACLEXE\APP\ORACLE\ORADATA\XE\TEMP.DBF
--

```
SQL> select tablespace_name,segment_type,count(*) segmentos
2 from dba_segments
3 group by tablespace_name,segment_type;
```

TABSPACE_NAME	SEGMENT_TYPE	SEGMENTOS
SYSTEM	CLUSTER	9
SYSTEM	TABLE	583
SYSTEM	INDEX	744
SYSAUX	NESTED TABLE	24
USERS	TABLE	7
SYSAUX	INDEX	1818
SYSAUX	INDEX PARTITION	126
SYSAUX	LOBSEGMENT	737
SYSAUX	LOB PARTITION	1
SYSTEM	LOBSEGMENT	104
SYSAUX	TABLE PARTITION	109

TABSPACE_NAME	SEGMENT_TYPE	SEGMENTOS
SYSAUX	LOBINDEX	737
UNDOTBS1	TYPE2 UNDO	10
SYSAUX	TABLE	918
SYSTEM	NESTED TABLE	10
SYSTEM	ROLLBACK	1
SYSAUX	CLUSTER	1
SYSTEM	LOBINDEX	104
USERS	INDEX	19
SYSAUX	TABLE SUBPARTITION	32

20 rows selected.

7. Consultar información sobre la base de datos (v\$database) y la instancia (v\$instance).

```
Connected.
SQL> select name, created, log_mode, checkpoint_change#, open_mode, platform_name, current_scn from v$database;
```

NAME	CREATED	LOG_MODE	CHECKPOINT_CHANGE#	OPEN_MODE
PLATFORM_NAME				
CURRENT_SCN				
XE	26/05/20	NOARCHIVELOG	537975	READ WRITE
Microsoft Windows x86 64-bit				
549042				

```
SQL> select instance_name,host_name,version,startup_time, status,archiver,logins,database_status from v$instance;
```

INSTANCE_NAME	HOST_NAME	VERSION	STARTUP_ STATUS	ARCHIVE LOGINS	DATABASE_STATUS
xe					
DESKTOP-T6PEFHS					
11.2.0.2.0	31/05/20	OPEN	STOPPED	ALLOWED	ACTIVE

8. . Localizar el proceso “servidor” asociado a mi sesión (v\$process y v\$session). ¿Es un servidor dedicado o compartido?

```
SQL> connect SYSTEM
Enter password:
Connected.
SQL>
```

```
SQL> select a.SERVER, a.username dbuser,a.OSUSER, a.PROCESS user_process,
2 a.machine, a.terminal, a.program user_program,
3 b.spid server_process, b.program server_program
4 from v$session a, v$process b
5 where a.username=USER and a.PADDR=b.ADDR;
```

```
SERVER      DBUSER      OSUSER
-----
USER_PROCESS
-----
MACHINE
-----
TERMINAL
-----
USER_PROGRAM
-----
SERVER_PROCESS
-----
SERVER_PROGRAM
-----
DEDICATED SYSTEM      DESKTOP-T6PEFHS\Hp
SERVER      DBUSER      OSUSER
-----
USER_PROCESS
-----
MACHINE
-----
TERMINAL
-----
USER_PROGRAM
-----
SERVER_PROCESS
-----
SERVER_PROGRAM
-----
5640:1636
```


SERVER	DBUSER	OSUSER

USER_PROCESS		

MACHINE		

TERMINAL		

USER_PROGRAM		

SERVER_PROCESS		

SERVER_PROGRAM		

WORKGROUP\DESKTOP-T6PEFHS		

SERVER	DBUSER	OSUSER

USER_PROCESS		

MACHINE		

TERMINAL		

USER_PROGRAM		

SERVER_PROCESS		

SERVER_PROGRAM		

DESKTOP-T6PEFHS		

SERVER	DBUSER	OSUSER

USER_PROCESS		

MACHINE		

TERMINAL		

```
-----
USER_PROGRAM
-----
SERVER_PROCESS
-----
SERVER_PROGRAM
-----
sqlplus.exe
-----
SERVER      DBUSER                      OSUSER
-----
USER_PROCESS
-----
MACHINE
-----
TERMINAL
-----
USER_PROGRAM
-----
SERVER_PROCESS
-----
SERVER_PROGRAM
-----
9928
-----
SERVER      DBUSER                      OSUSER
-----
USER_PROCESS
-----
MACHINE
-----
TERMINAL
-----
USER_PROGRAM
-----
SERVER_PROCESS
-----
SERVER_PROGRAM
-----
ORACLE.EXE (SHAD)
-----
SERVER      DBUSER                      OSUSER
-----
USER_PROCESS
-----
MACHINE
-----
TERMINAL
-----
USER_PROGRAM
-----
SERVER_PROCESS
-----
SERVER_PROGRAM
-----
```

9. ¿Cuánto ocupa la Dictionary cache y la Library cache en tu BD? (v\$sstat)

```
SQL> select * from v$sstat where name like '%cache';
```

POOL	NAME	BYTES
	buffer_cache	419430400
shared pool	ksdnhg: blkrs cache	5504
shared pool	KTU avail cache	4032
shared pool	ksdnhg: blkrs cache	2752
shared pool	ksdnhg: els blkrs cache	247680
shared pool	ksdnhg: fblkrs cache	8256
shared pool	ksdnhg: el wtr cache	30272
shared pool	ksvr msg cache	2392
shared pool	ksdnhg: wtr cache	2752
shared pool	row cache	7589256
shared pool	kkae edition name cache	408

11 rows selected.

10. Ver la actividad de la **Library Cache** (v\$librarycache).

```
SQL> select namespace, pinhitratio from v$librarycache;
```

NAMESPACE	PINHITRATIO
SQL AREA	,964923114
TABLE/PROCEDURE	,840293809
BODY	,958249158
TRIGGER	,583333333
INDEX	,680555556
CLUSTER	,981519507
QUEUE	,333333333
RULESET	,666666667
TEMPORARY TABLE	0
TEMPORARY INDEX	0
EDITION	,993031359

NAMESPACE	PINHITRATIO
DBLINK	1
OBJECT ID	1
SCHEMA	1
DBINSTANCE	1
SQL AREA STATS	,038990826
ACCOUNT_STATUS	1
SQL AREA BUILD	1

18 rows selected.

11. Ver las sentencias SQL que guarda la Shared-Pool (v\$sqlarea).

```
SQL> SET PAUSE ON
SQL> SET PAGESIZE 37
SQL> select SQL_TEXT, PERSISTENT_MEM, EXECUTIONS, LOADS, DISK_READS, CPU_TIME, ELAPSED_TIME from v$sqlarea order by DISK_READS desc;

SQL_TEXT
-----
PERSISTENT_MEM EXECUTIONS      LOADS DISK_READS      CPU_TIME ELAPSED_TIME
-----
call dbms_stats.gather_database_stats_job_proc ( )
6056          2          1          3115      17125000      25385722

select o.name, o.owner# from obj$ o, type$ t where o.oid$ = t.tvvoid and bitand
(t.properties,8388608) = 8388608 and (sysdate-o.ctime) > 0.0007
7720          3          1          1622      171875      155119

SELECT space_usage_kbytes FROM v$sysaux_occupants WHERE occupant_name = 'SQL_
MANAGEMENT_BASE'
3128          1          1          1317      1578125      2000162

select owner, segment_name, blocks from dba_segments where tablespace_name = :ts
name
84816          1          1          1209      187500      301157

select /*+ index(idl_ub1$ i_idl_ub11) */ piece#,length,piece from idl_ub1$ wher
e obj#=:1 and part=:2 and version=:3 order by piece#
12096          174          3          956      156250      352540

/* SQL Analyze(1) */ select /*+ full(t) no_parallel(t) no_parallel_index(t)
dbms_stats cursor_sharing_exact use_weak_name_resl dynamic_sampling(0) no_monito
ring no_substrb_pad */to_char(count("SNAP_ID")),to_char(substrb(dump(min("SNAP_
ID"),16,0,32),1,120)),to_char(substrb(dump(max("SNAP_ID"),16,0,32),1,120)),to_ch
ar(count("DBID")),to_char(substrb(dump(min("DBID"),16,0,32),1,120)),to_char(subs
trb(dump(max("DBID"),16,0,32),1,120)),to_char(count("INSTANCE_NUMBER")),to_char(
substrb(dump(min("INSTANCE_NUMBER"),16,0,32),1,120)),to_char(substrb(dump(max("I
NSTANCE_NUMBER"),16,0,32),1,120)),to_char(count("BEGIN_TIME")),to_char(substrb(d
ump(min("BEGIN_TIME"),16,0,32),1,120)),to_char(substrb(dump(max("BEGIN_TIME"),16
,0,32),1,120)),to_char(count("END_TIME")),to_char(substrb(dump(min("END_TIME"),1
6,0,32),1,120)),to_char(substrb(dump(max("END_TIME"),16,0,32),1,120)),to_char(co
unt("INTSIZE")),to_char(substrb(dump(min("INTSIZE"),16,0,32),1,120)),to_char(sub
strb(dump(max("INTSIZE"),16,0,32),1,120))
```

12. Crear el fichero de autenticación y activarlo (orapwd).

```
SQL> SHUTDOWN IMMEDIATE
Database closed.
Database dismounted.
ORACLE instance shut down.
SQL> STARTUP
ORACLE instance started.

Total System Global Area  535662592 bytes
Fixed Size                 1384760 bytes
Variable Size             335548104 bytes
Database Buffers          192937984 bytes
Redo Buffers              5791744 bytes
Database mounted.
Database opened.
SQL> exit
Disconnected from Oracle Database 11g Express Edition Release 11.2.0.2.0 - Production
```

13. Asignar la variable NLS_LANG para nuestro país y comprobar el cambio en las respuestas de Oracle desde sqlplus.

```
SQL> SELECT * FROM NLS_SESSION_PARAMETERS;
```

```
PARAMETER
```

```
VALUE
```

```
NLS_LANGUAGE  
SPANISH
```

```
NLS_TERRITORY  
SPAIN
```

```
NLS_CURRENCY  
€
```

```
PARAMETER
```

```
VALUE
```

```
NLS_ISO_CURRENCY  
SPAIN
```

```
NLS_NUMERIC_CHARACTERS  
, .
```

```
NLS_CALENDAR  
GREGORIAN
```

```
PARAMETER
```

```
VALUE
```

```
NLS_TIMESTAMP_TZ_FORMAT  
DD/MM/RR HH24:MI:SSXFF TZR
```

```
NLS_DUAL_CURRENCY  
€
```

```
NLS_COMP  
BINARY
```

```
PARAMETER
```

```
VALUE
```

```
NLS_LENGTH_SEMANTICS  
BYTE
```

```
NLS_NCHAR_CONV_EXCP  
FALSE
```

```
17 rows selected.
```

14. Subir el tamaño de la shared-pool un gránulo más (p.e. si tenía 48M subirlo a 52M, si el gránulo es de 4M) y comprobar cómo aumenta el espacio libre en dicha caché.

```
SQL> select * from v$sga_dynamic_components where component='shared pool';
```

COMPONENT	MIN_SIZE	MAX_SIZE	USER_SPECIFIED_SIZE	OPER_COUNT	LAST_OPER_TYP	LAST_OPER	CURRENT_SIZE
shared pool	201326592	201326592	0	0	STATIC	201326592	201326592

15. Comprobar el funcionamiento de la caché de redolog, como protectora del contenido de la caché de datos. Para ello iniciaremos una transacción y provocaremos una caída de la BD, comprobando que al arrancarla de nuevo, se mantendrá la integridad de la misma.

```
SQL> create table SCOTT.borrame (c1 varchar2(10)) tablespace users;
create table SCOTT.borrame (c1 varchar2(10)) tablespace users
*
```

ERROR at line 1:
ORA-00955: name is already used by an existing object

16. Sdgsgsd

```
SQL> desc SCOTT.borrame
```

Name	Null?	Type
C1		VARCHAR2(10)

```
SQL> insert into SCOTT.borrame values ('Primera');
1 row created.
SQL> commit;
Commit complete.
SQL> select * from SCOTT.borrame;
C1
-----
Primera
SQL> insert into SCOTT.borrame values ('Segunda');
1 row created.
SQL>
SQL> select * from SCOTT.borrame;
C1
-----
Primera
Segunda
```



```
SQL> shutdown abort
ORACLE instance shut down.
SQL> connect / as sysdba
Connected to an idle instance.
SQL>
SQL> startup
ORACLE instance started.

Total System Global Area  535662592 bytes
Fixed Size                  1384760 bytes
Variable Size              335548104 bytes
Database Buffers           192937984 bytes
Redo Buffers                 5791744 bytes
Database mounted.
Database opened.
```

```
SQL> select * from SCOTT.borname;

C1
-----
Primera

SQL> insert into SCOTT.borname values ('Segunda');

1 row created.

SQL> commit;

Commit complete.

SQL> select * from SCOTT.borname;

C1
-----
Primera
Segunda

SQL> shutdown abort
ORACLE instance shut down.
SQL> connect / as sysdba
Connected to an idle instance.
SQL> startup
ORACLE instance started.

Total System Global Area  535662592 bytes
Fixed Size                  1384760 bytes
Variable Size              335548104 bytes
Database Buffers           192937984 bytes
Redo Buffers                 5791744 bytes
Database mounted.
Database opened.
SQL> select * from SCOTT.borname;

C1
-----
Primera
Segunda
```

```
SQL> set timing on
SQL> select count(*) from dba_source;

COUNT(*)
-----
      228538

Elapsed: 00:00:00.45
SQL> r
1* select count(*) from dba_source

COUNT(*)
-----
      228538

Elapsed: 00:00:00.14
```