

Herramientas de monitorizacion y optimizacion

Muestra los parámetros generales de Oracle.

```
select * from v$system_parameter;
```

NUM	NAME	TYPE	VALUE	DISPLAY_VALUE	DEFAULT_VALUE	ISDEFAULT	ISSES_MODIFIABLE	ISSYS_MODIFIABLE	ISPOB_MODIFIABLE	ISINSTANCE_MODIFIABLE	ISMODIFIED	ISADJUSTED
51	lock_name_space	2 (null)	(null)	(null)	(null)	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
52	processes	3300	300	300	0	FALSE	FALSE	IMMEDIATE	FALSE	TRUE	FALSE	FALSE
53	sessions	3472	472	472	(null)	TRUE	FALSE	IMMEDIATE	TRUE	TRUE	FALSE	FALSE
82	timed_statistics	1TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	IMMEDIATE	TRUE	TRUE	FALSE	FALSE
83	timed_os_statistics	30	0	0	0	TRUE	TRUE	IMMEDIATE	TRUE	TRUE	FALSE	FALSE
84	resource_limit	1TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	IMMEDIATE	TRUE	TRUE	FALSE	FALSE
85	license_max_sessions	30	0	0	0	TRUE	FALSE	IMMEDIATE	FALSE	TRUE	FALSE	FALSE
86	license_sessions_warning	30	0	0	0	TRUE	FALSE	IMMEDIATE	FALSE	TRUE	FALSE	FALSE
95	long_module_action	1TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	IMMEDIATE	TRUE	TRUE	FALSE	FALSE
117	standby_db_preserve_states	2NONE	NONE	NONE	NONE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
121	instance_abort_delay_time	30	0	0	0	TRUE	FALSE	IMMEDIATE	FALSE	TRUE	FALSE	FALSE
136	cpu_count	32	2	0	0	TRUE	FALSE	IMMEDIATE	TRUE	TRUE	FALSE	FALSE
137	cpu_min_count	22	2	(null)	(null)	TRUE	FALSE	IMMEDIATE	TRUE	TRUE	FALSE	FALSE
149	instance_groups	2 (null)	(null)	(null)	(null)	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
155	event	2 (null)	(null)	(null)	NONE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
173	sga_max_size	61291845632	1232M	0	0	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
180	use_large_pages	2TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
193	pre_page_sga	1TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
194	shared_memory_address	30	0	0	0	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
195	shared_memory_address	30	0	0	0	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
197	lock_sga	1FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
253	processor_group_name	2 (null)	(null)	(null)	(null)	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
281	allow_group_access_to_sga	1FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
291	sga_min_size	60	0	0	0	TRUE	FALSE	IMMEDIATE	TRUE	TRUE	FALSE	FALSE
294	shared_pool_size	60	0	134217728	TRUE	FALSE	IMMEDIATE	TRUE	TRUE	TRUE	FALSE	FALSE
296	large_pool_size	60	0	134217728	TRUE	FALSE	IMMEDIATE	FALSE	TRUE	TRUE	FALSE	FALSE
298	java_pool_size	60	0	25165824	TRUE	FALSE	IMMEDIATE	FALSE	TRUE	TRUE	FALSE	FALSE
300	streams_pool_size	60	0	0	0	TRUE	FALSE	IMMEDIATE	FALSE	TRUE	FALSE	FALSE
303	shared_pool_reserved_size	617616076	17616076	0	0	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
306	java_soft_sessionspace_limit	30	0	0	0	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
307	java_max_sessionspace_size	30	0	0	0	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
309	pga_aggregate_limit	62147483648	2G	0	0	TRUE	FALSE	IMMEDIATE	TRUE	TRUE	FALSE	FALSE
338	spfile	2C:\APP\SEPP\PRODUCT\21C\DATABASE\SPFILEX.OC:\APP\SEPP\PRODUCT\21C\DATABASE\SPFILEX.OC	NONE	TRUE	TRUE	FALSE	IMMEDIATE	FALSE	TRUE	TRUE	FALSE	FALSE
339	instance_tune	2RDBMS	RDBMS	RDBMS	RDBMS	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE

Muestra los usuarios de Oracle conectados y el número de sesiones por usuario.

```
select username Usuario_Oracle, count(username) Numero_Sesiones
from v$session
group by username
order by Numero_Sesiones desc;
```

```
select username Usuario_Oracle, count(username) Numero_Sesiones
from v$session
group by username
order by Numero_Sesiones desc;
```

USUARIO_ORACLE	NUMERO_SESIONES
ADMIN_DIEZA	1
(null)	0

Muestra los datos de las tablas que empiecen por t_ (nuestras tablas).

```
select *
from ALL_ALL_TABLES
```

```
where upper(table_name) like 'T\_%' ESCAPE '\';
```

```
select *
from ALL_ALL_TABLES
where upper(table_name) like 'T\_%' ESCAPE '\';
```

ADMIN_DIETA	NO	NO					T_LOG_INSERT_ANIMAL
OWNER							
TABLE_NAME							
INMEMORY_COMPRESS	INMEMORY_DUPL	EXT	HYB	CELLMEMORY	INMEMORY_SER	INMEMORY_SERVICE_NAME	
ADMIN_DIETA							T_LOG_UPDATE_ANIMAL
ADMIN_DIETA	NO	NO					T_LOG_DELETE_ANIMAL
ADMIN_DIETA	NO	NO					

41 filas seleccionadas.

Muestra todas las tablas propiedad del usuario actual.

```
select * from user_tables;
```

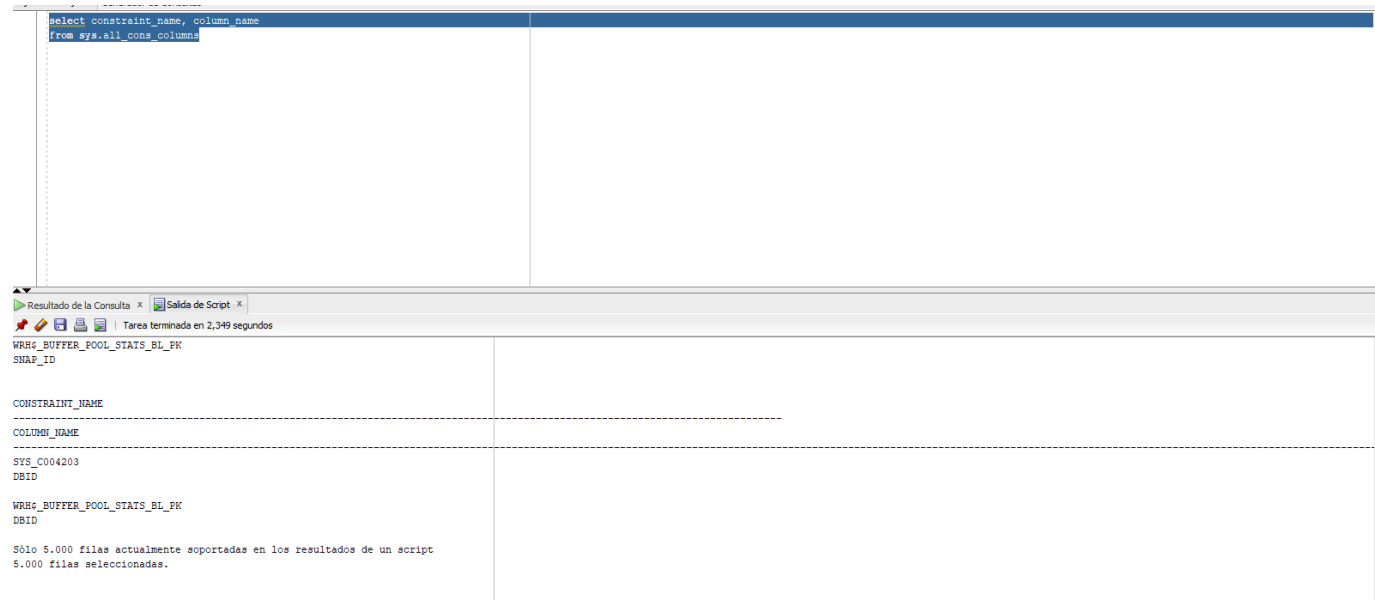
```
select * from user_tables;
```

T_LOG_INSERT_ANIMAL						TS_DIETAGANADERA
T_LOG_UPDATE_ANIMAL						TS_DIETAGANADERA
TABLE_NAME						
TABLESPACE_NAME						
CLUSTER_NAME						
INMEMORY_SERVICE_NAME						
T_LOG_DELETE_ANIMAL						TS_DIETAGANADERA

13 filas seleccionadas.

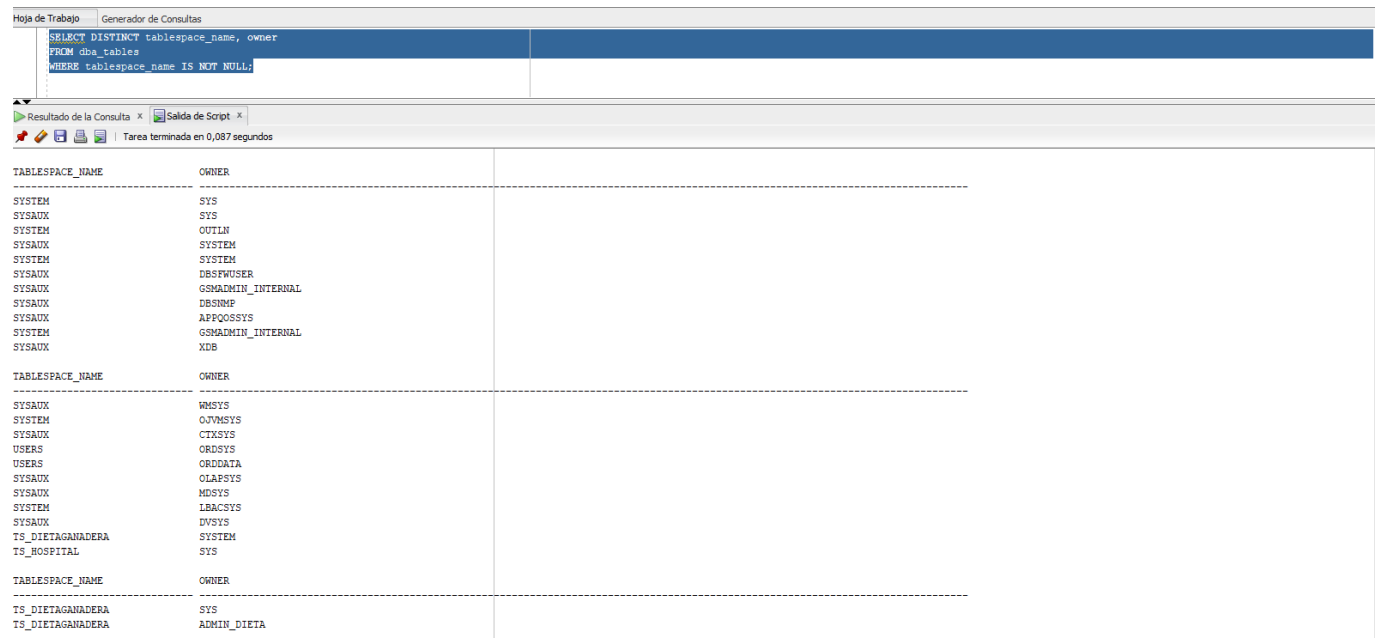
Muestra todas las reglas de integridad y columna a la que afectan.

```
select constraint_name, column_name
from sys.all_cons_columns;
```



Muestra los Tablespaces y propietarios de los mismos.

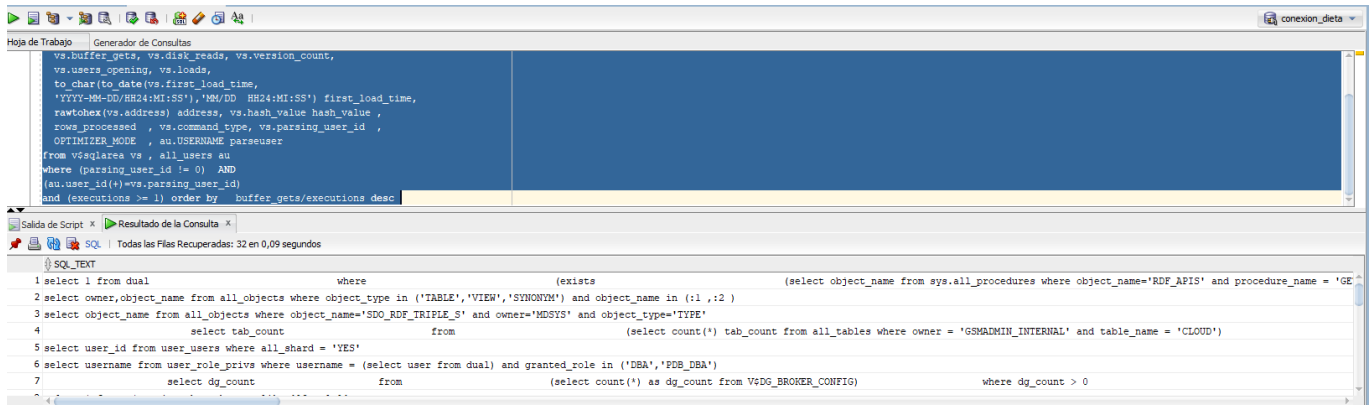
```
SELECT DISTINCT tablespace_name, owner
FROM dba_tables
WHERE tablespace_name IS NOT NULL;
```



Muestra las últimas consultas SQL ejecutadas en Oracle y usuario que las ejecutó.

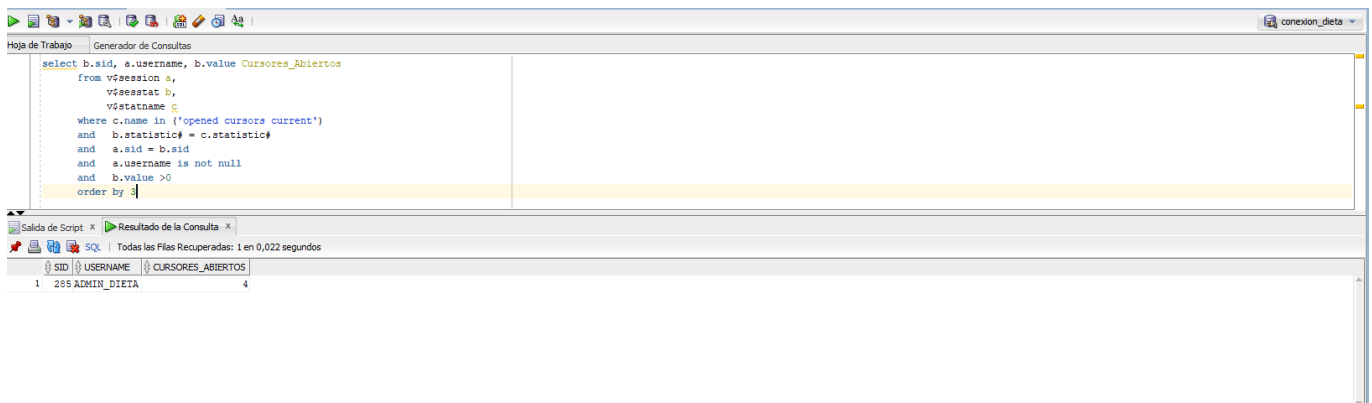
```
select distinct vs.sql_text, vs.sharable_mem,
vs.persistent_mem, vs.runtime_mem, vs.sorts,
vs.executions, vs.parse_calls, vs.module,
vs.buffer_gets, vs.disk_reads, vs.version_count,
vs.users_opening, vs.loads,
to_char(to_date(vs.first_load_time,
```

```
'YYYY-MM-DD/HH24:MI:SS'), 'MM/DD HH24:MI:SS') first_load_time,
rawtohex(vs.address) address, vs.hash_value hash_value ,
rows_processed , vs.command_type, vs.parsing_user_id ,
OPTIMIZER_MODE , au.USERNAME parseuser
from v$sqlarea vs , all_users au
where (parsing_user_id != 0) AND
(au.user_id(+) = vs.parsing_user_id)
and (executions >= 1) order by buffer_gets/executions desc
```



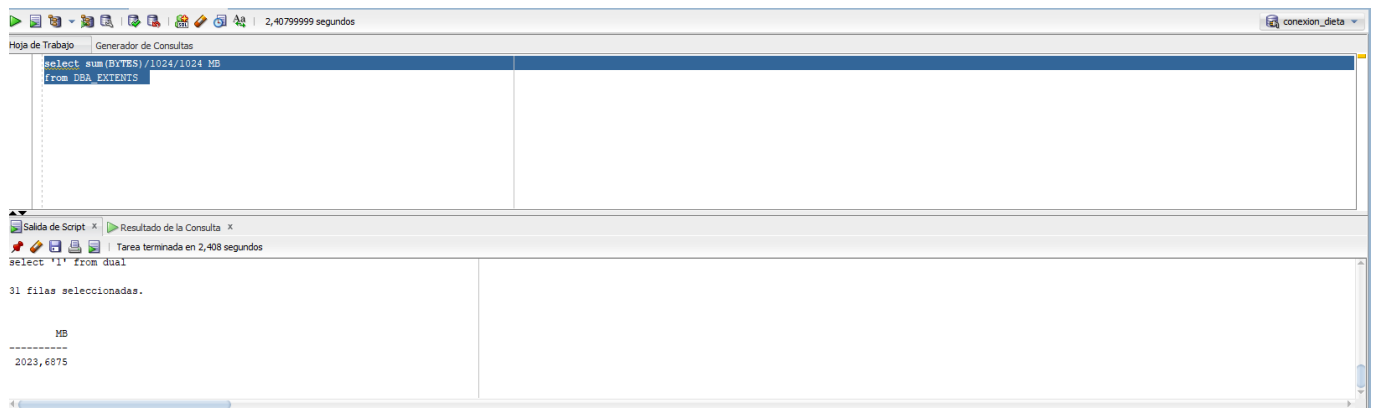
Muestra los cursores abiertos por usuario.

```
select b.sid, a.username, b.value Cursores_Abiertos
from v$session a,
v$sesstat b,
v$statname c
where c.name in ('opened cursors current')
and b.statistic# = c.statistic#
and a.sid = b.sid
and a.username is not null
and b.value > 0
order by 3
```



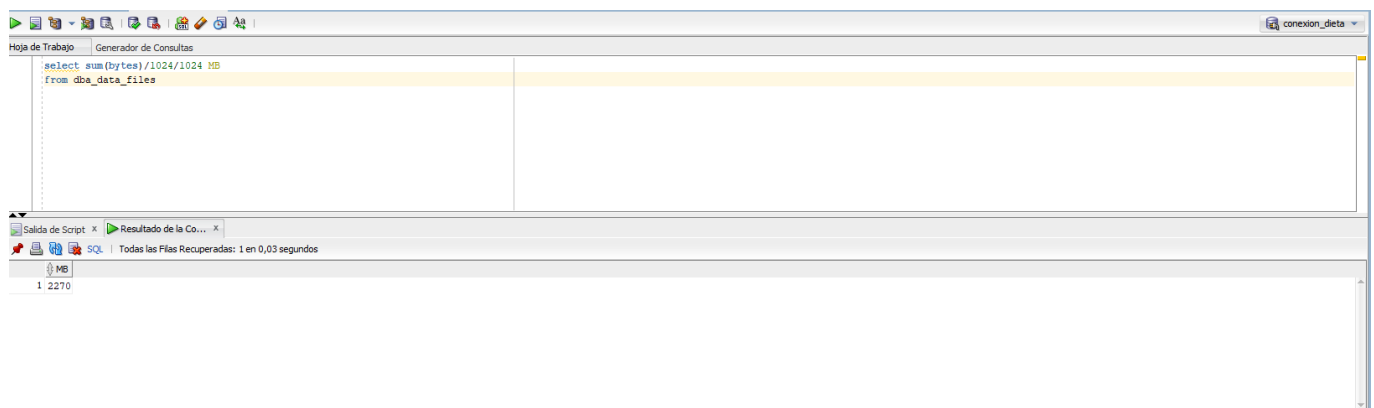
Muestra el tamaño ocupado por la base de datos.

```
select sum(BYTES)/1024/1024 MB
from DBA_EXTENTS
```



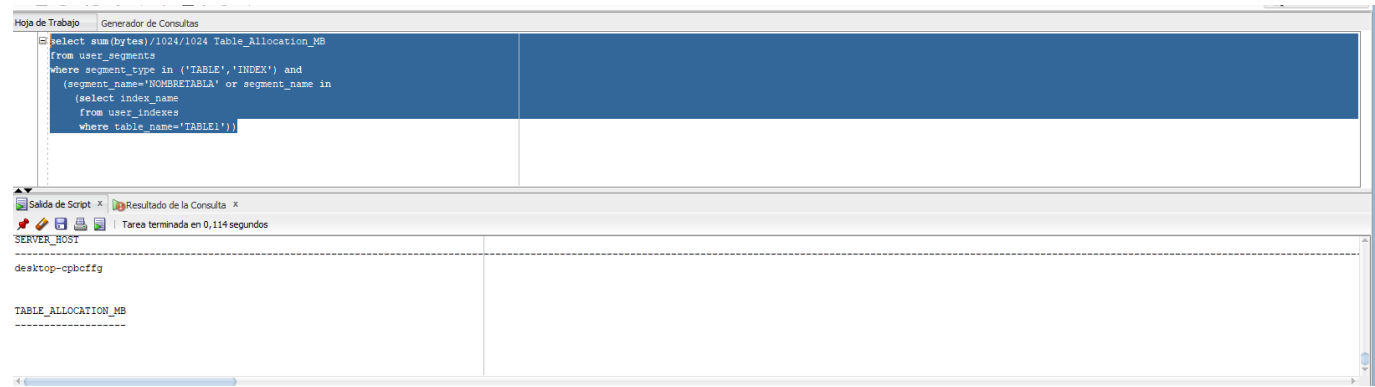
Muestra el tamaño de los ficheros de datos de la base de datos.

```
select sum(bytes)/1024/1024 MB
from dba_data_files
```

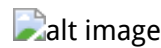


Muestra el tamaño ocupado por una tabla concreta incluyendo los índices de la misma.

```
select sum(bytes)/1024/1024 Table_Allocation_MB
from user_segments
where segment_type in ('TABLE','INDEX') and
      (segment_name='NOMBRETABLA' or segment_name in
        (select index_name
         from user_indexes
         where table_name='T_TOMA'))
```



- Después



Obtener la IP del servidor de la base de datos Oracle Database.

```
SELECT SYS_CONTEXT( 'USERENV', 'SERVER_HOST') AS server_host,
       SYS_CONTEXT( 'USERENV', 'IP_ADDRESS') AS ip_address
FROM DUAL;
```

