

ejercicio 2 recuperación de un tablespace

Recuperación de un tablespace

1. Verificar que la base de datos se encuentra en modo archivado

```
sys@jbadip02> archived log list;  
SP2-0734: unknown command beginning "archived l..." - rest of line ignored.  
sys@jbadip02> archive log list;  
Database log mode                Archive Mode  
Automatic archival               Enabled  
Archive destination              /unam-diplomado-bd/disk-042/archivelogs/jbadip02/disk_b  
Oldest online log sequence      4  
Next log sequence to archive    6  
Current log sequence            6
```

2. Mostrar los tablespaces

```
sys@jbadip02> select tablespace_name from dba_tablespaces;  
  
TABLESPACE_NAME  
-----  
SYSTEM  
SYSAUX  
UNDOTBS1  
TEMPTS1  
USERS  
TBSP_BK  
  
6 rows selected.  
  
sys@jbadip02> █
```

3. Con el usuario user06bk crear la tabla prueba_ts con un atributo, insertar datos y confirmar

```
user06bk@jbadip02> insert into prueba_tb values(1);  
  
1 row created.  
  
user06bk@jbadip02> commit;  
  
Commit complete.  
  
user06bk@jbadip02> █
```

4. Eliminar el tablespace tbsp_bk

```
[oracle@pc-joba trace]$ cd /u01/app/oracle/oradata/JBADIP02
[oracle@pc-joba JBADIP02]$ ls
sysaux01.dbf system01.dbf tbsp_bk temp01.dbf undotbs01.dbf users01.dbf
[oracle@pc-joba JBADIP02]$ ls -lh
total 2.3G
-rw-rw----. 1 oracle oinstall 551M Feb  2 17:17 sysaux01.dbf
-rw-rw----. 1 oracle oinstall 761M Feb  2 17:13 system01.dbf
-rw-rw----. 1 oracle oinstall 301M Feb  2 17:16 tbsp_bk
-rw-rw----. 1 oracle oinstall  21M Jan 30 17:52 temp01.dbf
-rw-rw----. 1 oracle oinstall 201M Feb  2 17:12 undotbs01.dbf
-rw-rw----. 1 oracle oinstall 501M Feb  2 17:06 users01.dbf
[oracle@pc-joba JBADIP02]$ rm -i tbsp_bk
rm: remove regular file 'tbsp_bk'? y
[oracle@pc-joba JBADIP02]$
```

5. Con el usuario user06bk ingresar dos datos más y confirmar

```
user06bk@jbadip02> select * from prueba_tb;

      CAMPO
-----
         1
         2
         3

user06bk@jbadip02>
```

6. Forzar el guardado de datos en disco

```
sys@jbadip02> alter system checkpoint;
alter system checkpoint
*
ERROR at line 1:
ORA-03113: end-of-file on communication channel
Process ID: 21076
Session ID: 185 Serial number: 24263

sys@jbadip02> shutdown immediate
ORA-24324: service handle not initialized
ORA-01041: internal error. hostdef extension doesn't exist
sys@jbadip02> shutdown abort
ORA-24324: service handle not initialized
ORA-01041: internal error. hostdef extension doesn't exist
sys@jbadip02>
```

7. Bajar la instancia en forma ordenada

8. Conectarse nuevamente y levantar la instancia

```
idle> startup
ORACLE instance started.

Total System Global Area 1073737800 bytes
Fixed Size                  8904776 bytes
Variable Size              692060160 bytes
Database Buffers          260046848 bytes
Redo Buffers               7868416 bytes
Database mounted.
ORA-01157: cannot identify/lock data file 5 - see DBWR trace file
ORA-01110: data file 5: '/u01/app/oracle/oradata/JBADIP02/tbsp_bk'

idle>
```

9. Colocar fuera de línea el datafile

10. Con RMAN restaurar el tablespace

```
RMAN> restore tablespace tbsp_bk;

Starting restore at 02-FEB-24
using target database control file instead of recovery catalog
allocated channel: ORA_DISK_1
channel ORA_DISK_1: SID=258 device type=DISK

channel ORA_DISK_1: starting datafile backup set restore
channel ORA_DISK_1: specifying datafile(s) to restore from backup set
channel ORA_DISK_1: restoring datafile 00005 to /u01/app/oracle/oradata/JBADIP02/tbsp_bk
channel ORA_DISK_1: reading from backup piece /unam-diplomado-bd/fast-recovery-area/JBADIP02/backupset/2024_02_02/o1_mf_nnnd0_BKF_0F_lvtwhcsd_.bkp
channel ORA_DISK_1: piece handle=/unam-diplomado-bd/fast-recovery-area/JBADIP02/backupset/2024_02_02/o1_mf_nnnd0_BKF_0F_lvtwhcsd_.bkp tag=BKF_0F
channel ORA_DISK_1: restored backup piece 1
channel ORA_DISK_1: restore complete, elapsed time: 00:00:07
Finished restore at 02-FEB-24

RMAN>
```

```
RMAN> recover tablespace tbsp_bk;

Starting recover at 02-FEB-24
using channel ORA_DISK_1

starting media recovery
media recovery complete, elapsed time: 00:00:05

Finished recover at 02-FEB-24

RMAN>
```

11. Verificar el estado de la instancia

12. Abrir la base de datos

13. Verificar nuevamente el estado de la instancia

14. Colocar el tablespace en línea

15. Verificar el estado de los tablespaces

```
idle> alter database open;

Database altered.
  > OUTLINE
idle> select status, database_status from v$instance;

STATUS          DATABASE_STATUS
-----
OPEN            ACTIVE

idle> select tablespace_name, status from dba_tablespaces;

TABLESPACE_NAME          STATUS
-----
SYSTEM                   ONLINE
SYSAUX                   ONLINE
UNDOTBS1                 ONLINE
TEMPTS1                  ONLINE
USERS                    ONLINE
TBSP_BK                  ONLINE

6 rows selected.
```

16. Revisar la información de la tabla prueba_ts

```
user06bk@jbadip02> exit
Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0
[jorge@pc-joba modulo-06]$ sqlplus user06bk/user06bk

  > OUTLINE
SQL*Plus: Release 19.0.0.0.0 - Production on Fri Feb 2 17:32:46 2024
Version 19.3.0.0.0

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Last Successful login time: Fri Feb 02 2024 17:14:37 -06:00

Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0

user06bk@jbadip02> select * from prueba_tb;

      CAMPO
-----
         1
         2
         3

user06bk@jbadip02>
```

CONCLUSIONES

¿El ejercicio aportó y/o mejoró la comprensión del concepto ?

Con este ejercicio pudimos realizar la recuperación de un table space específico, además de sincronizar los cambios que permanecían en memoria con el respaldo

Problemas identificados durante su elaboración así como la forma en la que se solucionaron
no se tuvo problemas

Comentarios, sugerencias.