

ejercicio 1

- Backup y restore completo de la base de datos
- Simularemos la pérdida de los datafiles y su recuperación a partir de un backup realizado previamente.

1. Ubicar los datafiles
2. Realizar un backup completo de la base de datos
3. Simular la pérdida de los datafiles
4. Bajar la base de datos en forma ordenada
5. Conectarse nuevamente y levantar la base
6. Tratar de levantar la base de datos en modo mount
7. Conectarse nuevamente con RMAN y recuperar la base de datos
8. Verificar en la ubicación de los datafiles su recuperación
9. Sincronizar el backup con los archivelogs y los redolog online
10. Abrir la base de datos y verificar su recuperación

1.

```
[oracle@pc-joba JBADIP02]$ ls -lt
total 2369772
-rw-rw----. 1 oracle oinstall 209723392 Feb  2 17:56 undotbs01.dbf
-rw-r-----. 1 oracle oinstall 314580992 Feb  2 17:56 tbsp_bk
-rw-rw----. 1 oracle oinstall 524296192 Feb  2 17:56 users01.dbf
-rw-rw----. 1 oracle oinstall 576724992 Feb  2 17:56 sysaux01.dbf
-rw-rw----. 1 oracle oinstall 796925952 Feb  2 17:56 system01.dbf
-rw-rw----. 1 oracle oinstall 20979712 Jan 30 17:52 temp01.dbf
[oracle@pc-joba JBADIP02]$ pwd
/u01/app/oracle/oradata/JBADIP02
[oracle@pc-joba JBADIP02]$
```

2.

```

RMAN> backup database tag Full_BK;

Starting backup at 02-FEB-24
allocated channel: ORA_DISK_1
channel ORA_DISK_1: SID=258 device type=DISK
channel ORA_DISK_1: starting full datafile backup set
channel ORA_DISK_1: specifying datafile(s) in backup set
input datafile file number=00001 name=/u01/app/oracle/oradata/JBADIP02/system01.dbf
input datafile file number=00002 name=/u01/app/oracle/oradata/JBADIP02/sysaux01.dbf
input datafile file number=00004 name=/u01/app/oracle/oradata/JBADIP02/users01.dbf
input datafile file number=00005 name=/u01/app/oracle/oradata/JBADIP02/tbsp_bk
input datafile file number=00003 name=/u01/app/oracle/oradata/JBADIP02/undotbs01.dbf
channel ORA_DISK_1: starting piece 1 at 02-FEB-24

```

3.

```

[oracle@pc-joba JBADIP02]$ ls -lt
total 2369772
-rw-rw----. 1 oracle oinstall 209723392 Feb  2 17:56 undotbs01.dbf
-rw-r-----. 1 oracle oinstall 314580992 Feb  2 17:56 tbsp_bk
-rw-rw----. 1 oracle oinstall 524296192 Feb  2 17:56 users01.dbf
-rw-rw----. 1 oracle oinstall 576724992 Feb  2 17:56 sysaux01.dbf
-rw-rw----. 1 oracle oinstall 796925952 Feb  2 17:56 system01.dbf
-rw-rw----. 1 oracle oinstall 20979712 Jan 30 17:52 temp01.dbf
[oracle@pc-joba JBADIP02]$ pwd
/u01/app/oracle/oradata/JBADIP02
[oracle@pc-joba JBADIP02]$ rm *
[oracle@pc-joba JBADIP02]$ ls -lt
total 0
[oracle@pc-joba JBADIP02]$

```

5.

```

idle> shutdown immediate
ORA-03113: end-of-file on communication channel
Process ID: 22062
Session ID: 172 Serial number: 31700

idle> 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]$ export ORACLE_SID=jbadip02
[jorge@pc-joba modulo-06]$ sqlplus sys/system2 as sysdba

SQL*Plus: Release 19.0.0.0.0 - Production on Fri Feb 2 18:04:00 2024
Version 19.3.0.0.0
> TIMELINE
Copyright (c) 1982, 2019, Oracle. All rights reserved.

Connected to an idle instance.

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
In-Memory Area 104857600 bytes
Database mounted.
ORA-01157: cannot identify/lock data file 1 - see DBWR trace file
ORA-01110: data file 1: '/u01/app/oracle/oradata/JBADIP02/system01.dbf'

```

7.

```

RMAN> restore database;

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 00001 to /u01/app/oracle/oradata/JBADIP02/system01.dbf
channel ORA_DISK_1: restoring datafile 00002 to /u01/app/oracle/oradata/JBADIP02/sysaux01.dbf
channel ORA_DISK_1: restoring datafile 00003 to /u01/app/oracle/oradata/JBADIP02/undotbs01.dbf
channel ORA_DISK_1: restoring datafile 00004 to /u01/app/oracle/oradata/JBADIP02/users01.dbf
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_nnndf_FULL_BK
_lv08xsp_.bkp
channel ORA_DISK_1: piece handle=/unam-diplomado-bd/fast-recovery-area/JBADIP02/backupset/2024_02_02/o1_mf_nnndf_FULL_BK_lv08xsp_.bk
p tag=FULL_BK
channel ORA_DISK_1: restored backup piece 1
channel ORA_DISK_1: restore complete, elapsed time: 00:00:55
Finished restore at 02-FEB-24

```

9.

```

RMAN> recover database;

Starting recover at 02-FEB-24
using channel ORA_DISK_1

starting media recovery
media recovery complete, elapsed time: 00:00:17

Finished recover at 02-FEB-24

```

10.

```

idle> alter database open;

Database altered.

idle>

```

CONCLUSIONES

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

Con este ejercicio pudimos simular la pérdida de todos los data files y su recuperación utilizando RMAN además de poder sincronizar el backup con los archivlogs y los redolog online con lo cual no perdemos esos cambios que se mantienen en memoria.

Problemas identificados durante su elaboración así como la forma en la que se solucionaron

no se tuvo problemas

Comentarios, sugerencias.