Examen TP Administration Base de Données Master ISI-1

Exercice 1 : Manipulation BD , instance , démarrage et arrêt :

1/

Mount database

```
SQL> conn sys as sysdba
Enter password:
Connected.
SQL> shutdown immediate
Database closed.
Database dismounted.
ORACLE instance shut down.
SQL> startup mount
ORACLE instance started.

Total System Global Area 5077495808 bytes
Fixed Size                   2184512 bytes
Variable Size             2701134528 bytes
Database Buffers          2365587456 bytes
Redo Buffers                 8589312 bytes
Database mounted.
```

Affichage de l'état avec le nom de l'instance associée

```
SQL> SELECT status, instance_name from v$instance
  2  ;

STATUS        INSTANCE_NAME
------------  ----------------
MOUNTED       orcl

SQL>
```

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Fichiers de contrôles

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

STATUS
-------
NAME
--------------------------------------------------------------------------------
IS_ BLOCK_SIZE FILE_SIZE_BLKS
--- ---------- --------------

D:\APP\MONCE\ORADATA\ORCL\CONTROL01.CTL
NO       16384            594

D:\APP\MONCE\FLASH_RECOVERY_AREA\ORCL\CONTROL02.CTL
NO       16384            594

STATUS
-------
NAME
--------------------------------------------------------------------------------
IS_ BLOCK_SIZE FILE_SIZE_BLKS
--- ---------- --------------
```

3/

Fichiers log

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

    GROUP# STATUS  TYPE
---------- ------- -------
MEMBER
--------------------------------------------------------------------------------
IS_
---
         3         ONLINE
D:\APP\MONCE\ORADATA\ORCL\REDO03.LOG
NO

         2         ONLINE
D:\APP\MONCE\ORADATA\ORCL\REDO02.LOG
NO

    GROUP# STATUS  TYPE
---------- ------- -------
MEMBER
--------------------------------------------------------------------------------
IS_
---
         1         ONLINE
D:\APP\MONCE\ORADATA\ORCL\REDO01.LOG
NO
```

4/

```
SQL> select * from DBA_DATA_File;
select * from DBA_DATA_File
              *
ERROR at line 1:
ORA-01219: database not open: queries allowed on fixed tables/views only
```

5/

Shutdown database

```
SQL> shutdown immediate
ORA-01109: database not open


Database dismounted.
ORACLE instance shut down.
```

Start Database

```
SQL> startup
ORACLE instance started.

Total System Global Area 5077495808 bytes
Fixed Size                   2184512 bytes
Variable Size             2701134528 bytes
Database Buffers          2365587456 bytes
Redo Buffers                 8589312 bytes
Database mounted.
Database opened.
```

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Les TableSpaces

```
SQL> select * from DBA_DATA_FILES;

FILE_NAME
--------------------------------------------------------------------------------
   FILE_ID TABLESPACE_NAME                      BYTES     BLOCKS STATUS
---------- ------------------------------ ---------- ---------- ---------
RELATIVE_FNO AUT    MAXBYTES  MAXBLOCKS INCREMENT_BY USER_BYTES USER_BLOCKS
------------ --- ---------- ---------- ------------ ---------- -----------
ONLINE_
-------
D:\APP\MONCE\ORADATA\ORCL\USERS01.DBF
         4 USERS                            5242880        640 AVAILABLE
         4 YES 3.4360E+10    4194302          160    4194304         512
ONLINE


FILE_NAME
--------------------------------------------------------------------------------
   FILE_ID TABLESPACE_NAME                      BYTES     BLOCKS STATUS
---------- ------------------------------ ---------- ---------- ---------
RELATIVE_FNO AUT    MAXBYTES  MAXBLOCKS INCREMENT_BY USER_BYTES USER_BLOCKS
------------ --- ---------- ---------- ------------ ---------- -----------
ONLINE_
-------
D:\APP\MONCE\ORADATA\ORCL\UNDOTBS01.DBF
         3 UNDOTBS1                        57671680       7040 AVAILABLE
         3 YES 3.4360E+10    4194302          640   56623104        6912
ONLINE


FILE_NAME
--------------------------------------------------------------------------------
   FILE_ID TABLESPACE_NAME                      BYTES     BLOCKS STATUS
---------- ------------------------------ ---------- ---------- ---------
RELATIVE_FNO AUT    MAXBYTES  MAXBLOCKS INCREMENT_BY USER_BYTES USER_BLOCKS
------------ --- ---------- ---------- ------------ ---------- -----------
ONLINE_
-------
D:\APP\MONCE\ORADATA\ORCL\SYSAUX01.DBF
         2 SYSAUX                         639631360      78080 AVAILABLE
         2 YES 3.4360E+10    4194302         1280  638582784       77952
ONLINE
```

```
      FILE_ID TABLESPACE_NAME                          BYTES     BLOCKS STATUS
   ---------- ------------------------------ ---------- ---------- ---------
RELATIVE_FNO AUT   MAXBYTES  MAXBLOCKS INCREMENT_BY USER_BYTES USER_BLOCKS
------------ --- ---------- ---------- ------------ ---------- ----------
ONLINE_
-------
D:\APP\MONCE\ORADATA\ORCL\EXAMPLE01.DBF
        5 EXAMPLE                             104857600      12800 AVAILABLE
        5 YES 3.4360E+10    4194302          80  103809024       12672
ONLINE


FILE_NAME
--------------------------------------------------------------------------
      FILE_ID TABLESPACE_NAME                          BYTES     BLOCKS STATUS
   ---------- ------------------------------ ---------- ---------- ---------
RELATIVE_FNO AUT   MAXBYTES  MAXBLOCKS INCREMENT_BY USER_BYTES USER_BLOCKS
------------ --- ---------- ---------- ------------ ---------- ----------
ONLINE_
-------
D:\APP\MONCE\ORADATA\ORCL\DF1EXPO.DBF
        6 TSEXPO                               4194304        512 AVAILABLE
     1024 YES   67108864       8192          512   3145728         384
ONLINE


FILE_NAME
--------------------------------------------------------------------------
      FILE_ID TABLESPACE_NAME                          BYTES     BLOCKS STATUS
   ---------- ------------------------------ ---------- ---------- ---------
RELATIVE_FNO AUT   MAXBYTES  MAXBLOCKS INCREMENT_BY USER_BYTES USER_BLOCKS
------------ --- ---------- ---------- ------------ ---------- ----------
ONLINE_
-------
D:\APP\MONCE\ORADATA\ORCL\DF2EXPO.DBF
        7 SVEXPO                               4194304        512 AVAILABLE
     1024 NO            0          0            0   3145728         384
ONLINE


7 rows selected.
```

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La liste des utilisateurs tablespace USERS (dba_users).

```
SQL> select * from dba_users
  2  ;

USERNAME                        USER_ID PASSWORD
------------------------------ ---------- ------------------------------
ACCOUNT_STATUS                  LOCK_DATE EXPIRY_DA
------------------------------- --------- ---------
DEFAULT_TABLESPACE              TEMPORARY_TABLESPACE           CREATED
------------------------------- ------------------------------ ---------
PROFILE                         INITIAL_RSRC_CONSUMER_GROUP
------------------------------- ------------------------------
EXTERNAL_NAME
--------------------------------------------------------------------------
PASSWORD E AUTHENTI
-------- - --------
ADMIN                                92

USERNAME                        USER_ID PASSWORD
------------------------------ ---------- ------------------------------
ACCOUNT_STATUS                  LOCK_DATE EXPIRY_DA
------------------------------- --------- ---------
DEFAULT_TABLESPACE              TEMPORARY_TABLESPACE           CREATED
------------------------------- ------------------------------ ---------
PROFILE                         INITIAL_RSRC_CONSUMER_GROUP
------------------------------- ------------------------------
EXTERNAL_NAME
--------------------------------------------------------------------------
PASSWORD E AUTHENTI
-------- - --------
OPEN                                      22-NOV-21
```

```
39 rows selected.
```

Exercice 2 :

1/

Creation de table space

```
SQL> create bigfile tablespace TS_Prod datafile
  2  'D:\app\monce\oradata\orcl\dataProd.dbf' size 24M autoextend off;

Tablespace created.
```

2/

Modification de la taille

```
SQL> alter tablespace TS_Prod resize 36M;

Tablespace altered.
```

3/

```
SQL> alter tablespace TS_Prod OFFLINE
  2  ;

Tablespace altered.
```

```
SQL> alter tablespace TS Prod rename datafile 'D:\app\monce\oradata\orcl\dataProd.dbf' to 'D:\app\monce\oradata\orcl\dataProdN

Tablespace altered.
```

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```
SQL> Create user production identified by prod password expire quota 8m on ts_Prod account lock
  2  ;

User created.
```

5/

```
SQL> Create role prodrole;

Role created.
```

```
SQL> Grant connect ,create table,create veiw ,create procedure,create sequence to prodrole with admin option;
Grant connect ,create table,create veiw ,create procedure,create sequence to prodrole with admin option
                              *
```