***TABLESPACE MANAGRMENT***

**Table Space Management (Practcal scenarios)**

Views those are helpful for Tablespace management.

* **dba\_tablespaces**
* **dba\_data\_files**
* **v$tablespace**
* **dba\_users**
* **v$tempfile**
* **dba\_segments**

**1.To see the details of the tablespaces.**

Sql>select tablespace\_name,block\_size,status,extent\_management,contents from dba\_tablespaces;

you can use the following view also

dba\_data\_files

**2.How to create a Tablespace**

SQL>create tablespace tbs1 datafile ‘/home/prd/tbs1.dbf’ size 100m;

Tablespace created.

**3.How to create a Tablespace with autoextend feature.**

SQL>create tablespace tbs1 datafile ‘/home/prd/tbs1.dbf’ size 100m

autoextend on next 10m maxsize 300m;

**4.How to turn OFF the autoextend feature?**

SQL>alter database Datafile ‘/home/prd/tb1.dbf’ autoextend off;

**5.How to add a datafile to an existing tablespace?**

SQL>Alter tablespace tbs1 add datafile ‘/home/prd/tbs2.dbf’ size 100m;

**6.How to Resize the existing Datafile?**

SQL>alter database datafile ‘/home/prd/tbs1.dbf’ resize 10m;

**7.How to Drop a Tablespace?**

SQL>drop tablespace tbs1;

Here only the logical path will be broken but @ os level the datafiles which are under this tablespace will be existing physically.

**8.How to drop a datafile from a tablespace?**

**ALTER** **TABLESPACE** "XYZ" **DROP** **DATAFILE** '/u01/app/oracle/oradata/orcl/xyz2.dbf'

**9.How to drop an entire tablespace including contents?**

SQL>drop tablespace tbs1 including contents;

To Drop the Tablespace including the contents and associated datafiles

SQL>drop tablespace tbs1 including contents and datafiles;

**10.How to rename a tablespace?**

**This feature is only from oracle 10g.**

SQL>alter tablespace userdata rename to users;

Note: we can’t rename SYSTEM,SYSAUX tablespaces.

**11.How to make tablespace offline?**

SQL>alter tablespace tbs1 offline;

In offline mode we can drop the tablespace, but no DML operations.

**12.How to make tablespace online?**

SQL>alter tablespace tbs1 online;

**13.How to make the Tablespace contents in read only mode?**

SQl>alter database tbs1 read only;

At read only mode, we can drop the tablespace but can’t perform any DML operations.

Can only select (DRL).

**14.How to make the Tablespace contents in read & write mode?**

SQL>alter tablespace tablespacename read write;

To create nologging tablespace

SQL>create tablespace tbs1 datafile ‘/home/prd/tbs1.dbf’ size 20m nologging;

**15.How to Display all the tables belongs to a user schema along with their associated tablespaces?**

View : **dba\_segments**

SQL>desc dba\_segments;

**Query: select segment\_name, segment\_type, tablespace\_name from dba\_segments where**

**owner=’SCOTT’ and segment\_type=’TABLE’;**

**16.How to Display all the tables belongs to a particular tablespace along with their sizes in MB?**

Query: SELECT SEGMENT\_NAME,SEGMENT\_TYPE,TABLESPACE\_NAME,BYTES/1024/1024 FROM DBA\_SEGMENTS WHERE SEGMENT\_TYPE=’TABLE’ AND TABLESPACE\_NAME=’USERS’;

**Renaming:**

To Move a Datafile from current location to new location.

**step 1:**

Make the corresponding tablespace offline by using the fallowing command.

SQL >Alter tablespace userdata offline;

**step 2:**

Go to OS level make copy of the existing datafile to the new name & location.

**step 3:**

go to Database level and issue the fallowing command.

SQl>Alter tablespace userdata

rename datafile '/home/prd/userdata.dbf' to '/opt/users.dbf';

**step 4:**

make the tablespace online

SQL>alter tablespace users online;

To see the status of the tablespace issue the fallowing command.

SQL>select file\_name,tablespace\_name,status from dba\_tablespaces;

**RENAMING A DATAFILE :**

**Step 1:**

SQL>select name from v$datafile;

**Step 2:**

shut down the database properly.

SQL>shut immediate;

**Step 3:**

go to OS level, make a copy of the existing datafile to a new name.

]$ls

]$cp user.dbf userdata.dbf

**step 4:**

connect database as sysdba & startup the database in mount stage.

]$sqlplus '/as sysdba'

SQL> startup mount;

Then Execute the Fallowing command.

SQL>alter database rename file '/home/prd/users.dbf' to '/home/prd/userdata.dbf';