

DBA LAB ASSIGNMENT – 4

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1. Write a command to view the current valid UNDO tablespace

```
SQL> show parameter undo_tablespace
```

NAME	TYPE	VALUE
undo_tablespace	string	UNDOTBS1

2. Write a command to get additional information about the current undo tablespace.

```
SQL> show parameter undo
```

NAME	TYPE	VALUE
temp_undo_enabled	boolean	FALSE
undo_management	string	AUTO
undo_retention	integer	900
undo_tablespace	string	UNDOTBS1

```
SQL>
```

3. Write a Command to get check the datafiles associated with a tablespace.

```
SQL> select tablespace_name , file_name , bytes/1024/1024 from dba_data_files;
```

```
TABLESPACE_NAME
-----
FILE_NAME
-----
BYTES/1024/1024
-----
USERS
G:\APP\DELL\ORADATA\ORCL\USERS01.DBF
5

UNDOTBS1
G:\APP\DELL\ORADATA\ORCL\UNDOTBS01.DBF
120

TABLESPACE_NAME
-----
FILE_NAME
-----
BYTES/1024/1024
-----

SYSTEM
G:\APP\DELL\ORADATA\ORCL\SYSTEM01.DBF
1350

SYSAUX
G:\APP\DELL\ORADATA\ORCL\SYSAUX01.DBF

TABLESPACE_NAME
```

4. Write a command extends the UNDOTBS1 tablespace by increasing the size of the datafile.

```
SQL> alter database datafile 'G:\APP\DELL\ORADATA\ORCL\UNDOTBS01.DBF' resize 100m;

Database altered.
```

5. Write a command adds one more datafile to UNDOTBS1 tablespace

```

C:\ Command Prompt - sqlplus / as sysdba
SQL> alter tablespace undotbs1 add datafile 'G:\APP\DELL\ORADATA\ORCL\UNDOTBS1B.DBF' size 10m autoextend on next 1m maxsize unl
Tablespace altered.

SQL> select tablespace_name , file_name , bytes/1024/1024 from dba_data_files;

TABLESPACE_NAME
-----
FILE_NAME
-----
BYTES/1024/1024
-----
SYSTEM
G:\APP\DELL\ORADATA\ORCL\SYSTEM01.DBF
1350

SYSaux
G:\APP\DELL\ORADATA\ORCL\SYSaux01.DBF
710

TABLESPACE_NAME
-----
FILE_NAME
-----
BYTES/1024/1024
-----

UNDOTBS1
G:\APP\DELL\ORADATA\ORCL\UNDOTBS01.DBF
100

UNDOTBS1
G:\APP\DELL\ORADATA\ORCL\UNDOTBS1B.DBF

TABLESPACE_NAME
-----
FILE_NAME
-----
BYTES/1024/1024
-----

```

6. Write a command to enable retention guarantee

```

SQL> alter tablespace undotbs1 retention guarantee;

Tablespace altered.

SQL>

```

7. Write a command to extend the retention period

```

SQL> alter system set undo_retention=1800;

System altered.

SQL> show parameter undo

```

NAME	TYPE	VALUE
temp_undo_enabled	boolean	FALSE
undo_management	string	AUTO
undo_retention	integer	1800
undo_tablespace	string	UNDOTBS1

8. Write a command to two ways in which an undo tablespace can be created

```
SQL> create database newdb
      2  undo tablespace undotb2 datafile 'G:\APP\DELL\ORADATA\ORCL\UNDOTBS02_02.DBF' size 100m;
create database newdb
*
ERROR at line 1:
ORA-01501: CREATE DATABASE failed
ORA-01504: database name 'NEWDB' does not match parameter db_name 'orcl'
```

```
SQL> create undo tablespace undotb2 datafile 'G:\APP\DELL\ORADATA\ORCL\UNDOTBS02_01.DBF' size 100m;
Tablespace created.
```

9. Write a command drops the undo tablespace UNDOTBS1

```
SQL> drop tablespace undotb2;
Tablespace dropped.
```