

## SESSION 10 CREATING/ALTERING USERS and PROFILES

The Oracle base remains unchanged with value /opt/oracle

```
[oracle@oracloud12c ~]$ sqlplus / as sysdba
```

SQL\*Plus: Release 12.1.0.2.0 Production on Tue Mar 20 11:05:14 2018

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Connected to:

Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit

Production

With the Partitioning, OLAP, Advanced Analytics and Real Application

Testing options

```
SQL> set pagesize 200
```

```
SQL> DESC DBA_USERS
```

Name	Null?	Type
USERNAME	NOT NULL	VARCHAR2(128)
USER_ID	NOT NULL	NUMBER
PASSWORD		VARCHAR2(4000)
ACCOUNT_STATUS	NOT NULL	VARCHAR2(32)
LOCK_DATE		DATE
EXPIRY_DATE		DATE
DEFAULT_TABLESPACE	NOT NULL	VARCHAR2(30)
TEMPORARY_TABLESPACE	NOT NULL	VARCHAR2(30)
CREATED	NOT NULL	DATE
PROFILE	NOT NULL	VARCHAR2(128)
INITIAL_RSRC_CONSUMER_GROUP		VARCHAR2(128)
EXTERNAL_NAME		VARCHAR2(4000)
PASSWORD_VERSIONS		VARCHAR2(12)
EDITIONS_ENABLED		VARCHAR2(1)
AUTHENTICATION_TYPE		VARCHAR2(8)
PROXY_ONLY_CONNECT		VARCHAR2(1)
COMMON		VARCHAR2(3)
LAST_LOGIN		TIMESTAMP(9) WITH TIME ZONE
ORACLE_MAINTAINED		VARCHAR2(1)

```
SQL> SELECT username, account_status, default_tablespace
      FROM dba_users
      WHERE account_status = 'OPEN';
```

USERNAME

ACCOUNT\_STATUS

DEFAULT\_TABLESPACE

TOM

OPEN

MINE

SYSMAN_APM	
OPEN	MGMT_TABLESPACE
SYSMAN_MDS	
OPEN	MGMT_TABLESPACE
SYSMAN_OPSS	
OPEN	MGMT_TABLESPACE
SYSMAN	
OPEN	MGMT_TABLESPACE
MGMT_VIEW	
OPEN	MGMT_ECM_DEPOT_TS
SCOTT	
OPEN	USERS
SYSTEM	
OPEN	SYSTEM
SYS	
OPEN	SYSTEM

9 rows selected.

In **DATABASE EXPRESS** we will create a new User (Account or Schema) named **FOOBAR** by going **Security → Users → Create User** and then filling fields in 3 pages like below:

### 1) User Account

NAME:	<b>FOOBAR</b>
AUTHENTICATION	choose button <b>PASSWORD</b>
PASSWORD:	<b>foobar</b>
PROFILE	from the list pick <b>DEFAULT</b>
PASSWORD EXPIRED	<b>check</b> this box
ACCOUNT LOCKED	leave this box <b>unchecked</b>

### 2) Tablespace

DEFAULT TBSP	from the list pick <b>MINE</b>
TEMPORARY TBSP	from the list pick <b>TEMP</b>

### 3) Privilege

In the left pane find role **CONNECT** and promote it to the right pane

Now click on button **SHOW SQL** that will display the command like below

**Create user FOOBAR identified by \*\*\*\*\* Profile DEFAULT Password expire Account unlock  
Default tablespace MINE Temporary tablespace TEMP;**

**Grant CONNECT to FOOBAR;**

Now, **click OK and again OK** and user will be created in DB Express.

```
SQL> conn FOOBAR/FOOBAR
ERROR:
ORA-01017: invalid username/password; logon denied
```

Warning: You are no longer connected to ORACLE.

```
SQL> CONN FOOBAR/foobar
ERROR:
ORA-28001: the password has expired
```

```
Changing password for FOOBAR
New password:          abcd
Retype new password:   abcd
Password changed
Connected.
```

```
SQL> CREATE TABLE x (col1 DATE);
CREATE TABLE x (col1 DATE)
*
ERROR at line 1:
ORA-01031: insufficient privileges
```

```
SQL> CONN / AS SYSDBA
Connected.
```

```
SQL> GRANT create table TO FOOBAR;
Grant succeeded.
```

```
SQL> CONN FOOBAR/abcd
Connected.
```

```
SQL> CREATE TABLE x (col1 DATE);
Table created.
```

```
SQL> INSERT INTO x VALUES (sysdate);
INSERT INTO x VALUES (sysdate)
*
ERROR at line 1:
ORA-01950: no privileges on tablespace 'MINE'
```

```
SQL> CONN / AS SYSDBA
```

Connected.

```
SQL> ALTER USER FOOBAR QUOTA 5M ON mine;
User altered.
```

```
SQL> CONN FOOBAR/abcd
Connected.
```

```
SQL> INSERT INTO x VALUES (sysdate);
1 row created.
```

```
SQL> commit;
Commit complete.
```

```
SQL> conn / as sysdba
Connected.
```

```
SQL> DESC dba_ts_quotas
```

Name	Null?	Type
TABLESPACE_NAME	NOT NULL	VARCHAR2(30)
USERNAME	NOT NULL	VARCHAR2(128)
BYTES		NUMBER
MAX_BYTES		NUMBER
BLOCKS		NUMBER
MAX_BLOCKS		NUMBER
DROPPED		VARCHAR2(3)

```
SQL> SELECT tablespace_name, username, bytes, max_bytes
FROM DBA_TS_QUOTAS
WHERE USERNAME IN ('TOM', 'FOOBAR');
```

TABLESPACE_NAME		
USERNAME		
	BYTES	MAX_BYTES
JOKE		
TOM	1146880	-1
MINE		
FOOBAR	524288	5242880
MINE		
TOM	0	2097152

```
SQL> CREATE USER lisa IDENTIFIED BY mona
      DEFAULT TABLESPACE joke TEMPORARY TABLESPACE temp
      QUOTA 512K ON joke ;
```

User created.

```
SQL> GRANT connect TO lisa;
Grant succeeded.
```

```
SQL> CREATE TABLE lisa.dept AS SELECT * FROM scott.dept;
Table created.
```

```
SQL> SELECT * FROM lisa.dept;
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

```
SQL> SELECT tablespace_name, username, bytes, max_bytes
      FROM   DBA_TS_QUOTAS
      WHERE  USERNAME IN ('FOOBAR','LISA');
```

TABLESPACE\_NAME

USERNAME

	BYTES	MAX_BYTES
MINE		
FOOBAR	524288	5242880
JOKE		
LISA	81920	524288

```
SQL> ALTER USER FOOBAR QUOTA UNLIMITED ON mine ;
User altered.
```

```
SQL> ALTER USER lisa QUOTA 0 ON joke
User altered.
```

```
SQL> SELECT tablespace_name, username, bytes, max_bytes
      FROM   DBA_TS_QUOTAS
      WHERE  USERNAME IN ('FOOBAR','LISA');
```

TABLESPACE\_NAME

```

USERNAME
-----
      BYTES  MAX_BYTES
-----
MINE
FOOBAR
      524288          -1

SQL> INSERT INTO lisa.dept VALUES ( 90, 'HR','TORONTO') ;
1 row created.

SQL> CREATE TABLE lisa.emp AS SELECT * FROM scott.emp ;
      AS SELECT * FROM scott.emp
                        *

ERROR at line 2:
ORA-01536: space quota exceeded for tablespace 'JOKE'

SQL> DROP USER lisa;
DROP USER lisa
*

ERROR at line 1:
ORA-01922: CASCADE must be specified to drop 'LISA'

SQL> DROP USER lisa CASCADE ;
User dropped.

```

In DATABASE EXPRESS we will create a new Profile named PROG by going **Security → Profiles → Create Profile** and then filling fields in 3 pages like below:

### 1) New profile

NAME	PROG
------	------

### 2) General

We will change only these 2 fields here in the RESOURCE part (the rest will stay with defaults)

IDLE TIME (MIN)	60
CONCURRENT SESSIONS	2

### 3) Password

EXPIRE IN (days))	120
LOCK (days past expiration)	7
NUMBER OF PASSWORDS TO KEEP	UNLIMITED
NUMBER OF DAYS TO KEEP FOR	60

COMPLEXITY FUNCTION	NULL
NUMBER OF FAILED LOGINS TO LOCK AFTER	2
NUMBER OF DAYS TO LOCK FOR	5/1440

Now click on button **SHOW SQL** that will display the command like below

```
Create profile PROG limit  cpu_per_session UNLIMITED  cpu_per_call UNLIMITED
connect_time  UNLIMITED  idle_time 60  sessions_per_user 2
logical_reads_per_session UNLIMITED  logical_reads_per_call UNLIMITED private_sga
UNLIMITED composite_limit UNLIMITED  password_life_time 120 password_grace_time 7
password_reuse_max UNLIMITED  password_reuse_time 60 password_verify_function NULL
failed_login_attempts 2  password_lock_time 5/1440;
```

Now, **click OK and again OK** and PROFILE will be created in DB Express.

```
SQL> desc dba_profiles
```

Name	Null?	Type
PROFILE	NOT NULL	VARCHAR2 (128)
RESOURCE_NAME	NOT NULL	VARCHAR2 (32)
RESOURCE_TYPE		VARCHAR2 (8)
LIMIT		VARCHAR2 (128)
COMMON		VARCHAR2 (3)

```
SQL> SELECT profile, resource_name, limit, resource_type
FROM dba_profiles
WHERE profile = 'PROG'
ORDER BY 1, 4, 2;
```

PROFILE	RESOURCE_NAME	LIMIT
PROG	COMPOSITE_LIMIT	UNLIMITED
KERNEL		
PROG	CONNECT_TIME	UNLIMITED
KERNEL		
PROG	CPU_PER_CALL	UNLIMITED
KERNEL		
PROG	CPU_PER_SESSION	UNLIMITED
KERNEL		

PROG		
IDLE_TIME	60	
KERNEL		
PROG		
LOGICAL_READS_PER_CALL	UNLIMITED	
KERNEL		
PROG		
LOGICAL_READS_PER_SESSION	UNLIMITED	
KERNEL		
PROG		
PRIVATE_SGA	UNLIMITED	
KERNEL		
PROG		
SESSIONS_PER_USER	2	
KERNEL		
PROG		
FAILED_LOGIN_ATTEMPTS	2	
PASSWORD		
PROG		
PASSWORD_GRACE_TIME	7	
PASSWORD		
PROG		
PASSWORD_LIFE_TIME		
120		
PASSWORD		
PROG		
PASSWORD_LOCK_TIME	.0034	
PASSWORD		
PROG		
PASSWORD_REUSE_MAX	UNLIMITED	
PASSWORD		
PROG		
PASSWORD_REUSE_TIME	60	
PASSWORD		
PROG		
PASSWORD_VERIFY_FUNCTION	NULL	
PASSWORD		

16 rows selected.



In DATABASE EXPRESS we will MODIFY the account for FOOBAR by going Security → Users → select FOOBAR from the users list → Actions → Alter Account and then under Profile list pick PROG and OK

The same action may be done quickly by using the syntax like;

```
ALTER USER foobar PROFILE prog;
```

```
SQL> conn foobar/a
```

```
ERROR:
```

```
ORA-01017: invalid username/password; logon denied
```

```
Warning: You are no longer connected to ORACLE.
```

```
SQL> conn foobar/b
```

```
ERROR:
```

```
ORA-01017: invalid username/password; logon denied
```

```
SQL> conn foobar/c
```

```
ERROR:
```

```
ORA-28000: the account is locked
```

```
SQL> CONN FOOBAR/abcd
```

```
ERROR:
```

```
ORA-28000: the account is locked
```

```
SQL> conn / as sysdba
```

```
Connected.
```

```
SQL> ALTER USER foobar ACCOUNT UNLOCK;
```

```
User altered.
```

```
SQL> CONN FOOBAR/abcd
```

```
Connected.
```

```
SQL> conn / as sysdba
```

```
Connected.
```

```
SQL> ALTER SYSTEM SET resource_limit=true;
```

```
System altered.
```

```
SQL> exit
```

```
Disconnected from Oracle Database 12c Enterprise Edition Release
```

```
12.1.0.2.0 - 64bit Production
```

```
With the Partitioning, OLAP, Advanced Analytics and Real Application
```

```
Testing options
```

```
[oracle@oracloud12c ~]$ exit
```

```
logout
```