



**Question 3.**

Imagine that you have successfully completed CS674. Now you are hired as a database security expert to train the database administration team. At the first training session, you ask the trainees to perform the following tasks using SQL\*Plus. Write the query and show the output for the following steps (as sys or system):

- a. Create a user named CH0306 with the same password. Use all default values for the user options.

```
CREATE USER CH0306 IDENTIFIED BY CH0306
```

```
2018-09-16 14:09:52 SYS AS SYSDBA> create user ch0306 identified by ch0306 ;
```

```
User created.
```

```
2018-09-16 14:17:57 SYS AS SYSDBA> SELECT USERNAME, ACCOUNT_STATUS FROM DBA_USERS WHERE USERNAME = 'CH0306' ;
```

USERNAME	ACCOUNT_STATUS
CH0306	OPEN

```
2018-09-16 14:19:10 SYS AS SYSDBA> █
```



- b. Modify the user options to change the default tablespace to TOOLS. (Note: You need to create a TOOLS tablespace before you answer this question.)

```
ALTER USER CH0306 DEFAULT TABLESPACE TOOLS
```

```
2018-09-16 14:37:39 SYS AS SYSDBA> create tablespace T00LS datafile 'tools.dbf' SIZE 20M;
```

```
Tablespace created.
```

```
2018-09-16 14:39:37 SYS AS SYSDBA> ALTER USER CH0306 DEFAULT TABLESPACE T00LS;
```

```
User altered.
```

```
2018-09-16 14:41:11 SYS AS SYSDBA> █
```

- c. Lock the CH0306 account.

```
ALTER USER CH0306 ACCOUNT LOCK
```

```
2018-09-16 17:00:23 SYS AS SYSDBA> ALTER USER CH0306 ACCOUNT LOCK;
```

```
User altered.
```

```
2018-09-16 17:01:04 SYS AS SYSDBA>
```



- d. Change the CH0306 user password to DBSEC.

ALTER USER CH0306 IDENTIFIED BY DBSEC

```
2018-09-16 17:01:04 SYS AS SYSDBA> ALTER USER CH0306 IDENTIFIED BY DBSEC;
```

User altered.

```
2018-09-16 17:03:15 SYS AS SYSDBA> █
```



- e. Query the CH0306 account using the data dictionary view DBA\_USERS.

```
SELECT USERNAME, ACCOUNT_STATUS,
DEFAULT_TABLESPACE, TEMPORARY_TABLESPACE
FROM DBA_USERS WHERE USERNAME = 'CH0306'
```

```
2018-09-16 17:03:15 SYS AS SYSDBA> SELECT USERNAME, ACCOUNT_STATUS, TEMPORARY_TABLESPACE, DEFAULT_TABLESPACE FROM DBA_USERS WHERE USERNAME = 'CH0306';
```

USERNAME	ACCOUNT_STATUS	TEMPORARY_TABLESPACE	DEFAULT_TABLESPACE
CH0306	LOCKED	TEMP	TOOLS

```
2018-09-16 17:11:19 SYS AS SYSDBA> █
```

- f. Query the CH0306 user's quotas using the data dictionary view DBA\_TS\_QUOTAS.

```
SELECT USERNAME, TABLESPACE_NAME, MAX_BYTES, BYTES
FROM DBA_TS_QUOTAS
WHERE USERNAME = 'CH0306'
```

```
2018-09-16 17:11:19 SYS AS SYSDBA> SELECT USERNAME, TABLESPACE_NAME, MAX_BYTES, BYTES FROM DBA_TS_QUOTAS WHERE USERNAME = 'CH0306';
```

no rows selected

```
2018-09-16 17:17:17 SYS AS SYSDBA> SELECT * FROM DBA_TS_QUOTAS;
```

TABLESPACE_NAME	USERNAME	BYTES	MAX_BYTES	BLOCKS	MAX_BLOCKS	DRO
USERS	PHPDEMO	3080192	-1	376	-1	NO
USERS	OE1	6619136	-1	808	-1	NO
USERS	HR	1769472	-1	216	-1	NO
USERS	HR1	1638400	-1	200	-1	NO
SYSAUX	APPQOSSYS	131072	-1	16	-1	NO
USERS	TIMESTEN	65536	5242880	8	640	NO
USERS	CACHEADM	458752	-1	56	-1	NO
USERS	TTHR	1638400	-1	200	-1	NO
USERS	PLS	589824	-1	72	-1	NO
USERS	FRED	0	10485760	0	1280	NO
USERS	OE	14876672	-1	1816	-1	NO
SYSAUX	OLAPSYS	9240576	-1	1128	-1	NO
SYSAUX	SYSMAN	89456640	-1	10920	-1	NO
USERS	APP	131072	20971520	16	2560	NO
SYSAUX	FLWS_FILES	0	-1	0	-1	NO
APEX_1265209995679366	OBE	6815744	-1	832	-1	NO

16 rows selected.

```
2018-09-16 17:20:06 SYS AS SYSDBA> █
```



- g. Provide unlimited storage quotas to CH0306 on TOOLS and USERS.

```
ALTER USER CH0306 QUOTA unlimited ON TOOLS;  
ALTER USER CH0306 QUOTA unlimited ON USERS;
```

```
2018-09-16 17:20:06 SYS AS SYSDBA> ALTER USER CH0306 QUOTA UNLIMITED ON TOOLS;
```

```
User altered.
```

```
2018-09-16 17:27:14 SYS AS SYSDBA> ALTER USER CH0306 QUOTA UNLIMITED ON USERS;
```

```
User altered.
```

```
2018-09-16 17:28:12 SYS AS SYSDBA> SELECT USERNAME, TABLESPACE_NAME, BYTES, MAX_BYTES FROM DBA_TS_QUOTAS WHERE USERNAME = 'CH0306';
```

USERNAME	TABLESPACE_NAME	BYTES	MAX_BYTES
CH0306	USERS	0	-1
CH0306	TOOLS	0	-1

```
2018-09-16 17:31:20 SYS AS SYSDBA> █
```



(Note: A quota value of -1 indicated UNLIMITED storage)