Oracle ALTER USER Statement

Summary: In this lab, you will learn how to use the Oracle ALTER USER statement to modify the authentication or database resource of a database user.

The ALTER USER statement allows you to change the authentication or database resource characteristics of a database user.

Generally speaking, to execute the ALTER USER statement, your account needs to have the ALTER USER system privilege. However, you can change your own password using the ALTER USER statement without having the ALTER USER system privilege.

Let's create a user named dolphin and grant the CREATE SESSION system privilege to dolphin:

```
CREATE USER dolphin IDENTIFIED BY abcd1234;

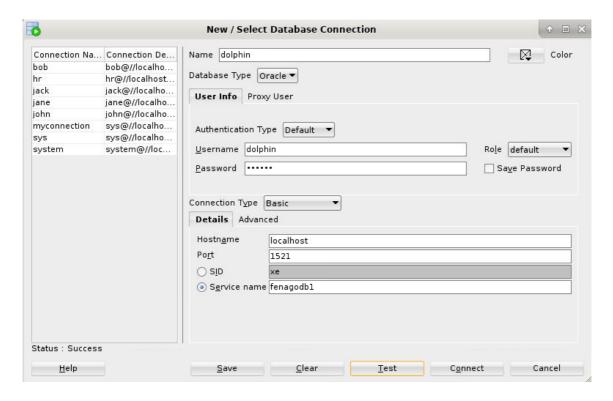
GRANT CREATE SESSION TO dolphin;
```

1. Using Oracle ALTER USER statement to change the password for a user

The following example uses the ALTER USER statement to change the password for the user dolphin:

```
ALTER USER dolphin IDENTIFIED BY xyz123;
```

Log in to the Oracle Database using the dolphin user:



The user dolphin should be able to authenticate to the Oracle Database using the new password xyz123

2. Using Oracle ALTER USER statement to lock a user

This example uses the ALTER USER statement to lock the user dolphin:

```
ALTER USER dolphin ACCOUNT LOCK;
```

If you use the user dolphin to log in to the Oracle Database, you should see a message indicating that the user is locked:

Note: Disconnect as dolphin user and try to connect again in SQL Developer:



3. Using Oracle ALTER USER statement to unlock a user

To unlock the user dolphin , you use the following statement:

```
ALTER USER dolphin ACCOUNT UNLOCK;
```

Now, the user dolphin should be able to log in to the Oracle Database.

4. Using Oracle ALTER USER statement to set the default profile for a user

This statement returns the profile of the user dolphin:

```
SELECT

username,

profile

FROM

dba_users

WHERE

username ='DOLPHIN';
```

When you create a new user without specifying a profile, Oracle will assign the DEFAULT profile to the user.

Let's [create a new user profile] called ocean:

```
CREATE PROFILE ocean LIMIT

SESSIONS_PER_USER UNLIMITED

CPU_PER_SESSION UNLIMITED

CPU_PER_CALL 3000

CONNECT_TIME 60;
```

and assign it to the user dolphin:

```
ALTER USER dolphin
PROFILE ocean;
```

Now, the default profile of the user dolphin is ocean.

5. Using Oracle ALTER USER statement to set default roles for a user

Currently, the user dolphin has no assigned roles as shown in the output of the following query when executing from the dolphin's session:

```
SELECT * FROM session roles;
```

First, create a new role called rescue from the user sys session:

```
CREATE ROLES rescue;

GRANT CREATE TABLE, CREATE VIEW TO rescue;
```

Second, grant this role to dolphin:

```
GRANT rescue TO dolphin;
```

Third, use the user dolphin to log in to the Oracle Database. The default role of the user dolphin is rescue now

```
SELECT * FROM session_roles;
```

Here is the output:

```
RESCUE
```

Fourth, create another role called super and grant all privileges to this role:

```
CREATE ROLE super;

GRANT ALL PRIVILEGES TO super;
```

Fifth, grant the role super to the user dolphin:

```
GRANT super TO dolphin;
```

Sixth, set the default role of the user dolphin to super:

```
ALTER USER dolphin DEFAULT ROLE super;
```

Seventh, disconnect the current session of the user dolphin and log in to the Oracle Database again. The default role of the user dolphin should be super as shown in the output of the following query:

```
SELECT * FROM session_roles;
```

The	fol	lowina	shows	the	output:

ROLE

SUPER

In this lab, you have learned how to use the Oracle ALTER USER to change the authentication or database resource of a database user.