User Admin

CREATE TABLESPACE MSIA643_ts
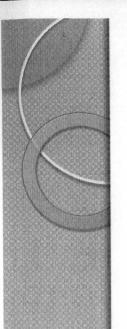DATAFILE 'tbs_IA643.dat' SIZE 500K REUSE
AUTOEXTEND ON NEXT 500K MAXSIZE 100M;

Create USER JDoe IDENTIFIED BY hispwd
DEFAULT TABLESPACE MSIA643_ts
QUOTA 200K ON MSIA643_ts
TEMPORARY TABLESPACE TEMP
PROFILE STUD_PROF
ACCOUNT UNLOCK; — Project leam unlock

*When usy your own table space, your own profile make sure you create them b4 u create to user.

GRANT CONNECT, RESOURCE TO JDoe;

Profile Example

```
Drop Profile stud_prof;
CREATE PROFILE Stud_PROF LIMIT
   SESSIONS_PER_USER          UNLIMITED
   CPU_PER_SESSION            UNLIMITED
   CPU_PER_CALL            3000
   CONNECT_TIME            120
   LOGICAL_READS_PER_SESSION  DEFAULT
   LOGICAL_READS_PER_CALL     1000
   PRIVATE_SGA            15K
   COMPOSITE_LIMIT         5000000
   FAILED_LOGIN_ATTEMPTS 5
   PASSWORD_LIFE_TIME 100
   PASSWORD_REUSE_TIME 30
   PASSWORD_REUSE_MAX 3
   PASSWORD_LOCK_TIME 1
   PASSWORD_GRACE_TIME 3
   PASSWORD_VERIFY_FUNCTION Ex_pwd_verify;
```

Password Verification Function

```sql
CREATE OR REPLACE FUNCTION Ex_pwd_verify (P_userid varchar2, P_password varchar2,
    P_old_password varchar2)
RETURN BOOLEAN IS

PWD_STR VARCHAR2(255);

BEGIN

PWD_STR := UPPER(P_password);

IF LENGTH(PWD_STR) < 8 THEN
    RETURN FALSE;
END IF;

FOR i IN 1..LENGTH(PWD_STR) LOOP

    IF INSTR('~!@#$%^&*', SUBSTR(PWD_STR, i,1)) > 0 THEN
    RETURN TRUE;
    END IF;
END LOOP;

RETURN FALSE;
END;
/
```
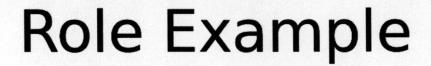
Test Step 1

```
Set serveroutput on;
set define off;
BEGIN
  if
  Ex_pwd_verify('dba643','yuui2pemmrlf','rt5677') then
      dbms_output.put_Line('True');
  else
      dbms_output.Put_line('False');
  end if;
END;
/
```

Test Step 2

- Create the function in SYS account
- Logon as dba643

  ALTER USER JDOE PROFILE Stud_Prof;
- Logon as JDOE

ALTER USER Jdoe IDENTIFIED BY "newpwd" REPLACE "oldpwd";

Role Example

Assume you are managing multiple levels of users

- Administrators
- Developers
- End users/ Vendors/ Customers/ Viewers
  - Mangers
  - Clerks

Role – cont'd

- CREATE ROLE cust_serv_clerk;

- GRANT select on customers to cust_serv_clerk;

- GRANT select, insert, update on issue_track to cust_serv_clerk;

- GRANT cust_serv_clerk to bob;

Role – cont'd

- CREATE ROLE cust_serv_mgr;
- GRANT cust_serv_clerk to cust_serv_mgr;
- GRANT insert, update, delete on customers to cust_serv_mgr;
- GRANT delete on issue_track to cust_serv_mgr;
- GRANT cust_serv_mgr to mary;