COMO CREAR UN WEB SERVICE EN ORACLE

(INGRESAMOS COMO SYS@DB AS SYSDBA)

CREAMOS UN USUARIO (TEST)

```
CREATE USER TEST
IDENTIFIED BY TEST
DEFAULT TABLESPACE USERS
TEMPORARY TABLESPACE TEMP
PROFILE DEFAULT
ACCOUNT UNLOCK;
```

ASIGNAMOS ROLES

```
GRANT CONNECT TO TEST WITH ADMIN OPTION;
GRANT DBA TO TEST WITH ADMIN OPTION;
ALTER USER TEST DEFAULT ROLE ALL;
```

ASIGNAMOS PRIVILEGIOS DEL SYSTEM

```
GRANT ALTER USER TO TEST;
GRANT CREATE ANY INDEX TO TEST;
GRANT CREATE ANY SYNONYM TO TEST;
GRANT CREATE ANY TABLE TO TEST;
GRANT CREATE ANY TRIGGER TO TEST;
GRANT CREATE ANY VIEW TO TEST;
GRANT CREATE SYNONYM TO TEST;
GRANT CREATE TABLE TO TEST;
GRANT CREATE TRIGGER TO TEST;
GRANT CREATE USER TO TEST;
GRANT DELETE ANY TABLE TO TEST;
GRANT DROP ANY INDEX TO TEST;
GRANT DROP ANY SYNONYM TO TEST;
GRANT DROP ANY TABLE TO TEST;
GRANT DROP ANY TRIGGER TO TEST;
GRANT DROP ANY VIEW TO TEST;
GRANT EXECUTE ANY PROCEDURE TO TEST WITH ADMIN OPTION;
GRANT GRANT ANY PRIVILEGE TO TEST WITH ADMIN OPTION;
GRANT INSERT ANY TABLE TO TEST;
GRANT SELECT ANY TABLE TO TEST WITH ADMIN OPTION;
GRANT UNLIMITED TABLESPACE TO TEST WITH ADMIN OPTION;
GRANT UPDATE ANY TABLE TO TEST;
```

CUOTA PARA EL USUARIO

```
ALTER USER TEST QUOTA UNLIMITED ON USERS;
```

PRIVILEGIOS DE OBJETOS

```sql
    GRANT EXECUTE ON SYS.DBMS_NETWORK_ACL_ADMIN TO TEST;
    GRANT EXECUTE ON SYS.SYS_PLSQL_4D9DBC49_9_1 TO TEST WITH GRANT
OPTION;
    GRANT EXECUTE ON SYS.UTL_HTTP TO TEST;
    GRANT EXECUTE ON SYS.UTL_INADDR TO TEST;
    GRANT EXECUTE ON SYS.UTL_SMTP TO TEST;
    GRANT EXECUTE ON SYS.UTL_TCP TO TEST;
    GRANT SELECT ON SYS.V_$SESSION TO TEST;
```

CREAMOS UN PADRE QUE DA ACCESO A LOS PAQUETES DESDE EL NAVEGADOR

```sql
BEGIN
DBMS_EPG.create_dad (
dad_name => 'xml_demo',
path     => '/xml_demo/*');
END;
/

BEGIN
DBMS_EPG.authorize_dad (
dad_name => 'xml_demo',
user     => 'TEST');
END;
/
```

PERMISOS PARA CONECCIONES LOCALES

```sql
BEGIN
  dbms_network_acl_admin.create_acl('localhost1.xml', 'ACL for
localhost', 'TEST', TRUE, 'connect');
  dbms_network_acl_admin.assign_acl('localhost1.xml', 'localhost');
END;
/
COMMIT
/
```

CREAMOS LAS TABLAS QUE USAREMOS EN EL SERVICIO, SI NO LAS TENEMOS CREADAS.

```sql
CREATE TABLE test.emp AS SELECT * FROM scott.emp;
CREATE TABLE test.dept AS SELECT * FROM scott.dept;
```

DESBLOQUEA AL USUARIO DE PRUEBA SCOTT (NESESARIO EN EL EJEMPLO)

```sql
ALTER USER SCOTT IDENTIFIED BY SCOTT ACCOUNT UNLOCK;
```

CHECAMOS SI TENEMOS UN PUERTO CONFIGURADO

```sql
SELECT DBMS_XDB.gethttpport FROM dual;
```

SI EL RESULTADO DA 0, CREAMOS EL PUERTO

```sql
EXEC DBMS_XDB.sethttpport(8080);
```

NOS CONECTAMOS CON EL USUARIO CREADO (TEST/TEST)

CREAMOS UN PAQUETE Y PROCEDIEMTOS QUE SE LLAMARAN DESDE LA URL (EJ.)

ESPECIFICACION DEL PAQUETE

```sql
CREATE OR REPLACE PACKAGE prueba AS
PROCEDURE prueba1 (p_empno  IN  emp.empno%TYPE DEFAULT NULL);
END prueba;
SHOW ERRORS;
```

CUERPO DEL PAQUETE

```sql
CREATE OR REPLACE PACKAGE BODY prueba AS
PROCEDURE prueba1 (p_empno  IN  emp.empno%TYPE DEFAULT NULL) IS
v_emp emp%rowtype;


  --Creamos un cursor
  BEGIN

  SELECT *
  INTO v_emp
  FROM emp
  WHERE empno = p_empno;


  OWA_UTIL.Mime_Header('text/xml');
  HTP.Print(
  '<?xml version="1.0"?>'
  || '<EMP>'
  || ' <EMPNO>'||v_emp.empno||'</EMPNO>'
  || ' <ENAME>'||v_emp.ename||'</ENAME>'
  || ' <DEPTNO>'||v_emp.deptno||'</DEPTNO>'
  || ' <SAL>'||v_emp.sal||'</SAL>'
  || '</EMP>');
  EXCEPTION
  WHEN OTHERS THEN
  --OWA_UTIL.Mime_Header('text/xml');
  HTP.Print(
  '<?xml version="1.0"?>'
```

```
   || '<ROWSET>'
   || '  <ERROR>'||to_char(SQLERRM)||'</ERROR>'
   || '</ROWSET>');


  END prueba1;

END prueba;
SHOW ERRORS;
```
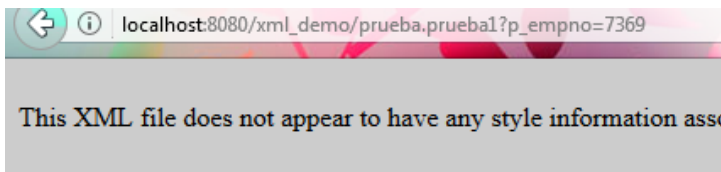
PARA ACCEDER A LA DIRECCION DESDE EL NAVEGADOR

(PEDIRA LAS CREDENCIALES TEST/TEST PARA ACCEDER)

http://localhost:8080/xml_demo/prueba.prueba1?p_empno=7369

RESULTADO:

```
<EMP>
 <EMPNO>7369</EMPNO>
 <ENAME>SMITH</ENAME>
 <DEPTNO>20</DEPTNO>
 <SAL>800</SAL>
</EMP>
```