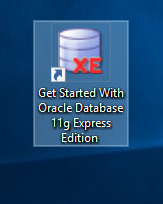
PRACTICE .1.-INSTALLING ORACLE EXPRESS

OBJECTIVE: Install OracleXE and create Object Relational Tables

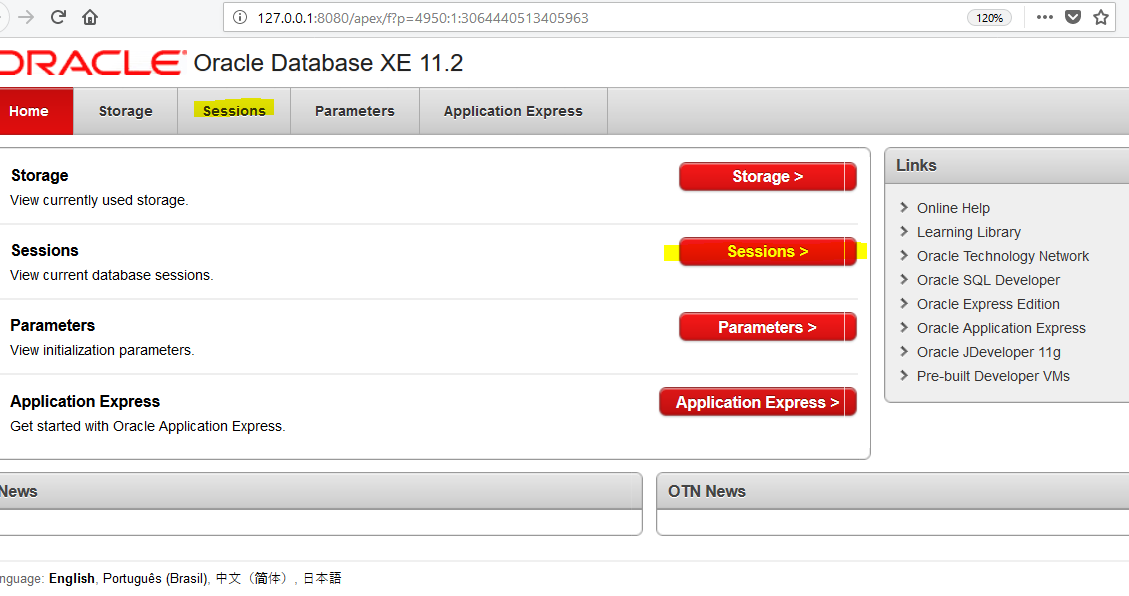
STEP1: Download OracleXE11g Express Edition for Windows (or Linux if you have Linux). Install it with set up.

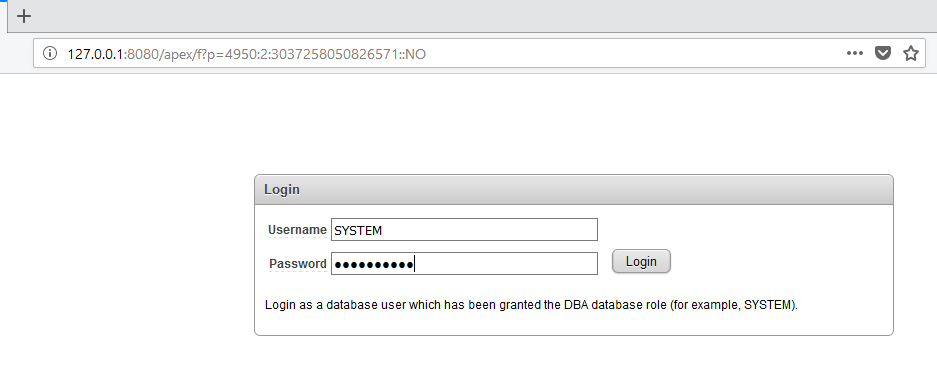
STEP2: EXECUTE THE PROGRAM.



STEP 3: CREATE A USER TO ACCESS THE DATABASE.

Go to “Sessions”>>CREATE USER SYSTEM TO HAVE ALL THE RIGHTS FOR THE DATABASE. USE A PASSWORD YOU CAN REMEMBER (EG: Patata1234)





Password: Patata1234

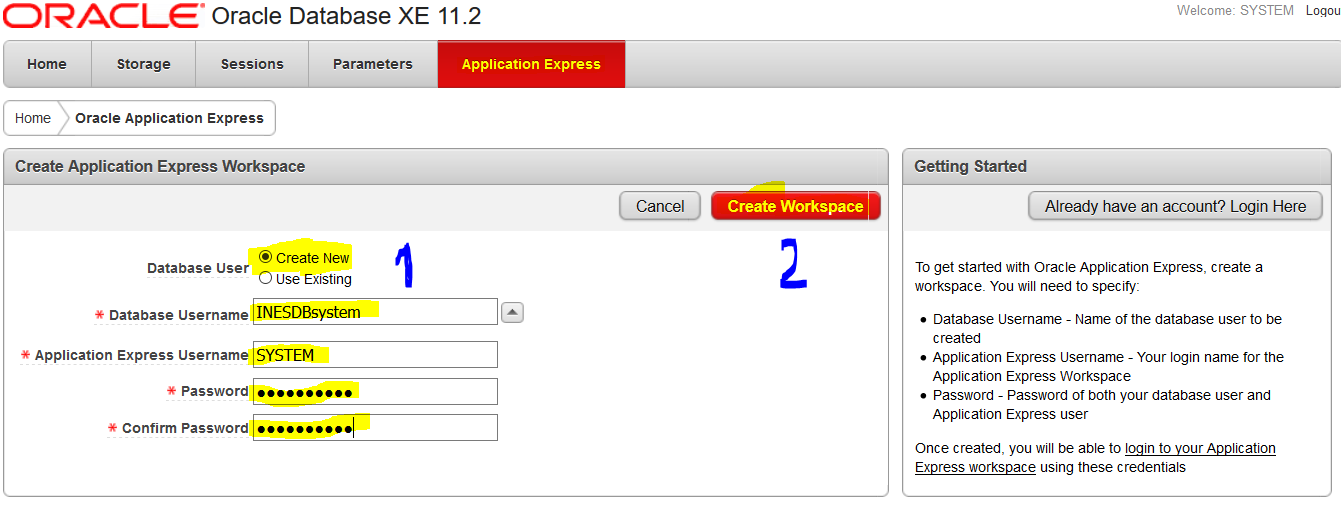
User: SYSTEM

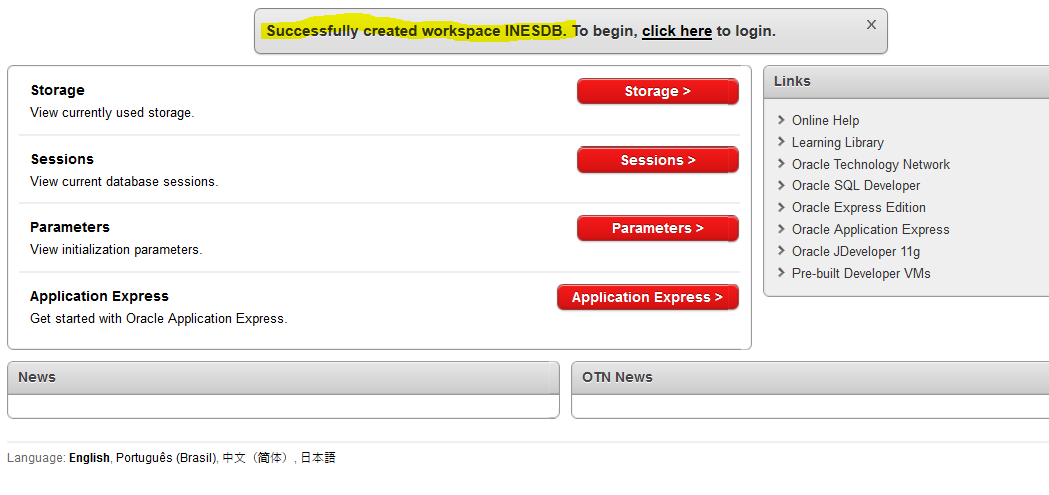
STEP 4: CREATE A WORKSPACE:

First fill in the text boxes.

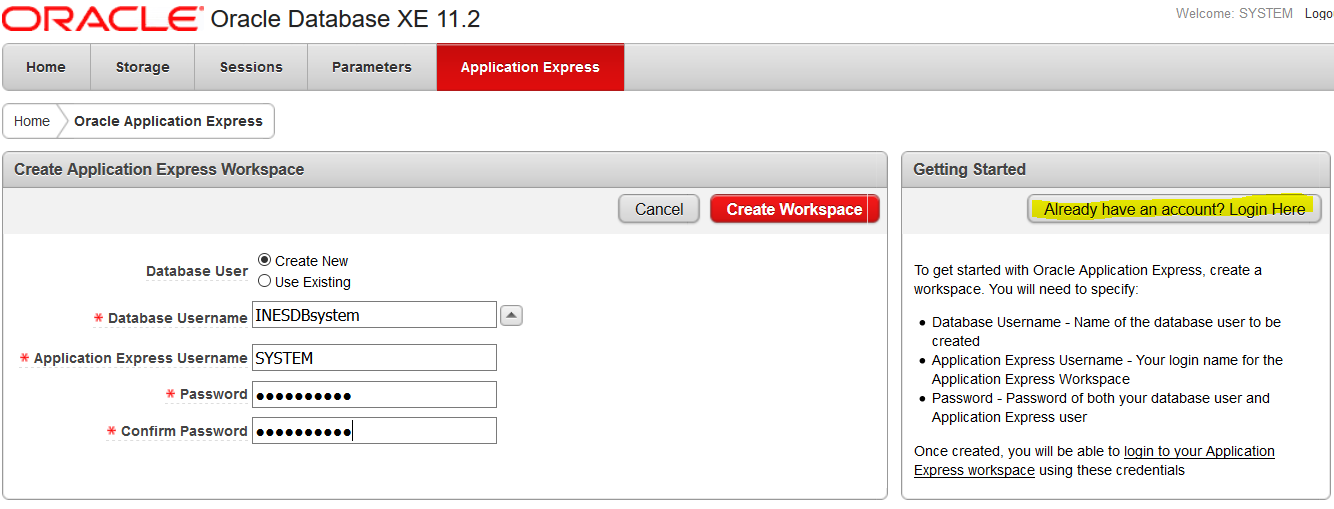
* Database Username: choose the name you want
* Application Express Username: write “SYSTEM”
* Password: I recommend you to use the same you wrote for SYSTEM (Patata1234).

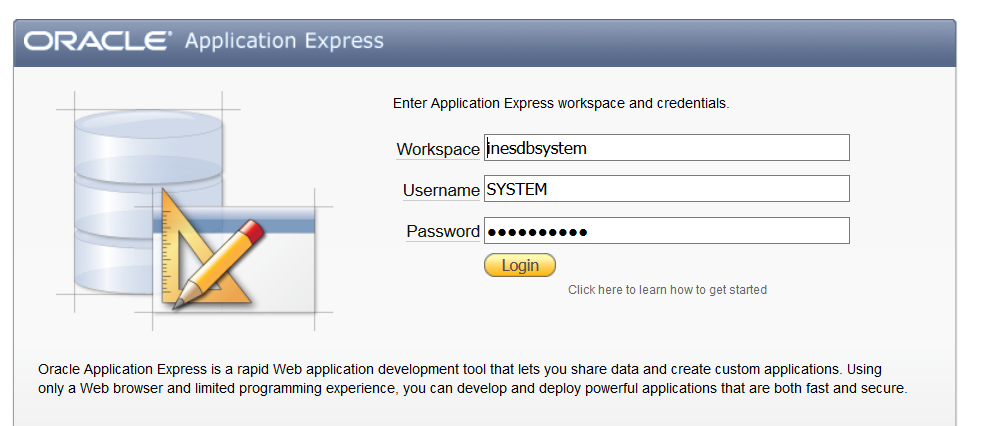
Second: Click on “Create Workspace”

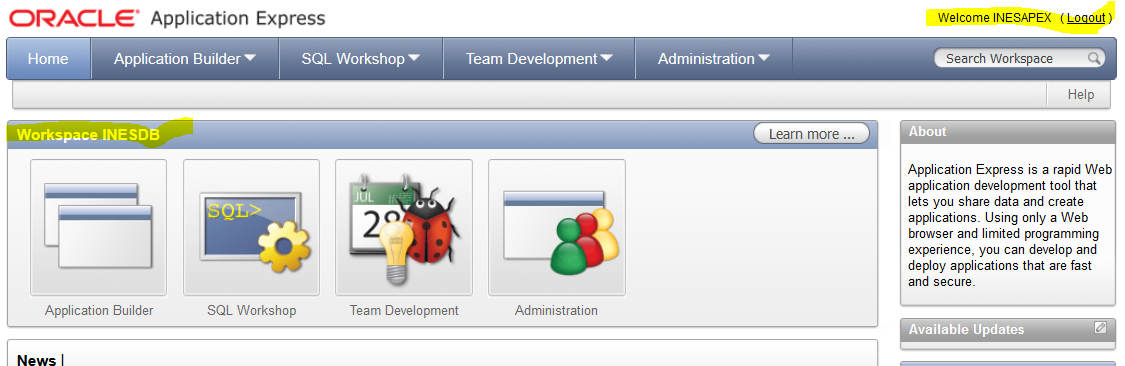




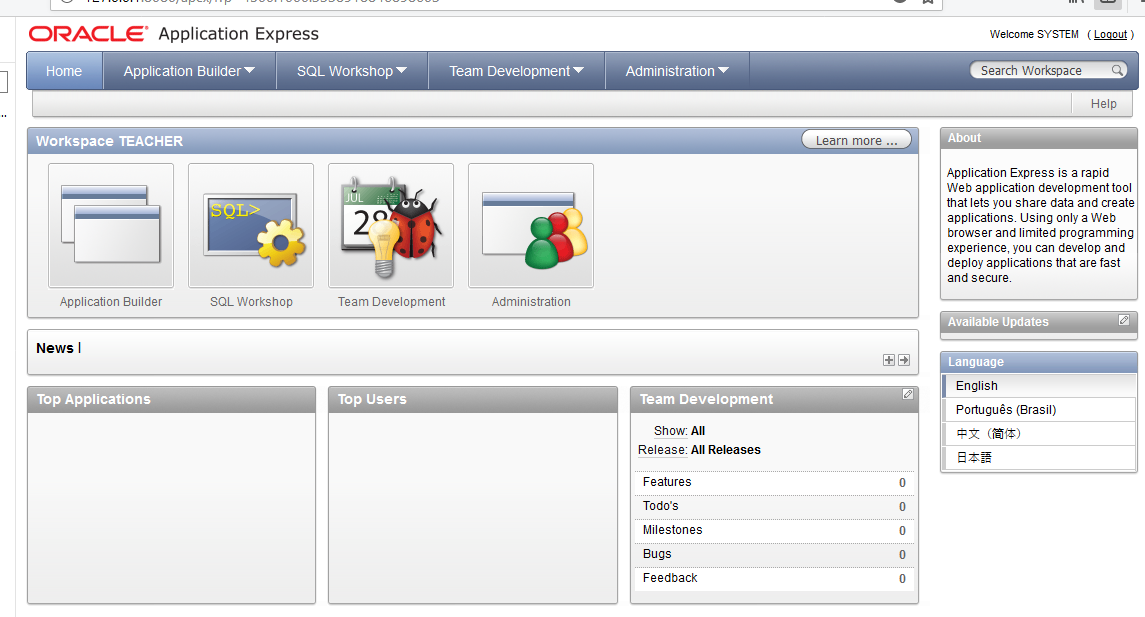
STEP 5: GETTING STARTED:







STEP 6: WORK WITH ORACLE. WE WILL DO IT IN SQL WORKSHOP



STEP 7: CREATE TYPES AND TABLES. ORACLE SUPPORTS OBJECT ORITENTED TYPES.

CREATE TYPE person AS OBJECT(

name VARCHAR2(30),

phone VARCHAR2(20)

);

CREATE TYPE student AS OBJECT(

id\_student VARCHAR2(9),

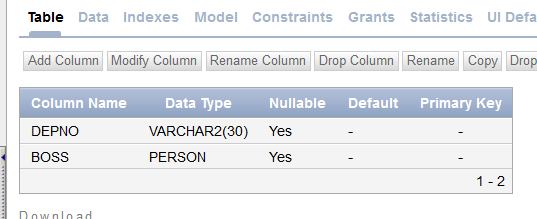
personal\_data **person**

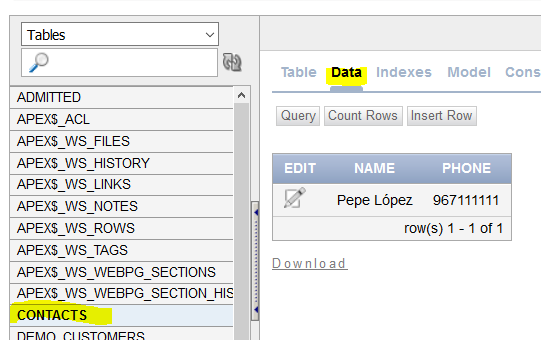
);

CREATE TABLE contacts OF PERSON;

INSERT INTO contacts VALUES('Pepe López','967111111');

We can see the tables created and the values of the records inserted





STEP 8: Create tables with objects in the fields:

CREATE TABLE admitted (day DATE, only\_studies student);

INSERT INTO admitted

VALUES('12/09/2018',student('01A', person('Pepe López','967111111')));

INSERT INTO admitted

VALUES('12/09/2018',student('02B', person('Ana Garcia','967222222')));

//COMMENT: ‘Ana Garcia’ will not be inserted only in the table admitted

STEP 9: CREATE QUERIES FOR YOUR TABLES:

SELECT a.only\_studies.id\_student,a.only\_studies.personal\_data.name

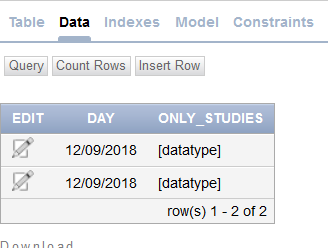
FROM admitted a;

SELECT a.only\_studies.id\_student,a.only\_studies.personal\_data.phone

FROM admitted a

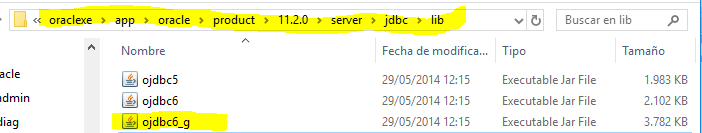
WHERE a.only\_studies.personal\_data.name='Pepe López';

The columns that have a complex type as “only\_studies” CANNOT be seen in the display. We se [datatype] but the data is stored.



STEP 10: Get a connection to Oracle using JDBC.

* We will use the jar file that comes in the instalation of OracleXE (C:/oraclexe/app/oracle/product/11.2.0/server/jdbc/lib/ojdbc6g.jar)
* Create a project UNIT4-ORDB-OODB.
* Build the path for the project adding the file ojdbc6g.jar





COMMENT: WE CAN USE ECLIPSE PHOTON FOR THIS UNIT.

**import** java.sql.\*;

**public** **class** PruebaAccesoOracle {

**public** **static** **void** main(String[] args) {

**try**{

Class.*forName*("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.*getConnection*("jdbc:oracle:thin:@localhost:1521:XE","system","Patata1234");

System.***out***.println("Connection OK");

con.close();

}**catch**(Exception e){

e.printStackTrace();

}

}

}

The insertions, detetions, updatings and queries could be done as we did with the JDBC in Unit2