# Creare USER Oracle 21c XE:

**Observatie**: Înainte de Oracle Database 12c, nicio bază de date Oracle nu era CDB. Containerul poate fi un PDB sau rădăcina. O bază de date container (CDB) este o bază de date unică care conține mai multe baze de date conectabile (PDB). Un PDB este o bază de date autonomă care poate fi creată, abandonată și mutată independent de alte PDB-uri din același CDB

## 1. Pentru Container Database (CDB):

- conexiunea implicita este la o baza CDB

SQL> conn system Enter password: Connected. SQL> **show con\_name** 

CON\_NAME ------CDB\$ROOT

Comenzi (obligatoriu C## ca prefix la user):

SQL> create user C##student identified by student;

SQL> grant create session, resource to C##student;

# 2. Pentru Pluggable Database (PBD):

A) Conectare cu CONNECT (sau SYS), implicit la CDB

SQL> conn Enter user-name: **connect as sysdba** Enter password: Connected.

Obs: (userul connect este practic user SYS)

# B) Bazele de date PDB disponibile (a doua intereseaza):

SQL> show pdbs

CON_ID CON_NAME	OPEN M	ODE RES	TRICTE	ED
2 PDB\$SEED	READ	ONLY	NO	
3 <b>XEPDB1</b>	READ	WRITE	NO	

C) Conexiunea implicita la CDB :

SQL> show con\_name CON\_NAME

CDB\$ROOT

# D) Schimbare baza de date la PDB:

SQL> alter session set container=XEPDB1;

SQL> show con\_name

CON\_NAME

-----

#### XEPDB1

Comenzi creare nou user la noua baza implicita (PDB):

SQL> create user student identified by student;

SQL> grant all privileges to student;

#### E) Conectare cu noul user:

- Se cauta cale pentru clientul consola SQL Plus

- Din CMD (consola cu linie de comanda), se lanseaza (spre exemplu, dar calea este functie de fiecare instalare Oracle) **sqlplus.exe**, cu parametrii (user/parola@localhost(IP):port/baza\_PDB:

C:\app\ioan.filip\product\21c\dbhomeXE\bin\sqlplus student/student@0.0.0.0:1521/XEPDB1



Exemple de alte drepturi/roluri care pot fi acordate:



Se pot acorda toate privilegiile:

SQL> grant ALL PRIVILEGES to student;

#### **Userul current:**

SQL> select username from user\_users; USERNAME

STUDENT

### Alt mod de conectare direct din consola SQL Plus :

SQL> conn <u>system/\*\*\*\*\*\*\*00@0.0.0.1521/XEPDB1</u> as sysdba Connected.

\_\_\_\_\_

SQL> create user student identified by student; SQL> grant all privileges to student; Grant succeeded.

Apoi:

SQL> conn student/student@0.0.0.0:1521/XEPDB1 Connected. SQL>



## 3. Utilizare Oracle SQL Developer



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Platform	Download	Notes
Windows 64-bit with JDK 11 included	🕁 Download (465 MB)	MD5: 3dc07aff110632a9e83189e7e689f279     SHA1: 59aa51cc318a32c4ddbac9f4c0b8ae12d6871cbd     Installation Notes
Windows 32-bit/64-bit	→ Download (510 MB)	• MD5: dc13da11f837a5f9c64187f52afb1ffe

Recomandat versiune cu support Java: Windows 64-bit with JDK 11 included:

User: SYSTEM

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Status : Success		Court 1
Help	Save Clear Test Connect	Cancel

- Vezi parametrii (conectare la XEPDB1)
- Verificare: buton Test
- Conectare : buton Connect

### User: student

🐻 New / Select Database Co	onnection	×
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# Visual Studio 2022 De instalat ODT:

https://marketplace.visualstudio.com/items?itemName=OracleCorporation.OracleDeveloperTools ForVisualStudio2022

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Sau poate si de aici (neverificat) : Oracle Developer Tools for Visual Studio

https://www.oracle.com/database/technologies/developer-tools/visual-studio/

#### Vezi figura:



Vezi si: https://www.youtube.com/watch?v=Osewbtbw0h8

### I. Utilizare ODT cu VS 2022- WINDOWS FORMS:



Windows Form App (.NET Framework)

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Conectare la baza de date Oracle **XEPDB1** cu user student (cu provider extensie - ODT)

### Sau : cu optiunea CONTAINER=ALL si la Create User si la Grant (C##student1)

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User C## student1 -> conectare la PDB1

LA conectare cu vechiul provider (OracleClient)



#### Eroare : - provider pe 32 biti !!!

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User C## student1 -> conectare la CDB (XE)

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PENTRU Conectare la baza de date Oracle **CDB** (XE) cu user C##student (cu provider .NET – Oracle Client)



**EROARE** : Conectare la baza de date Oracle **CDB** (XE) cu user C##student

Se pare ca, cu provider .NET – Oracle Client -> NU MERGE (nici la CDB (user : C##student), nici la PDB (user : student) !!!

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Continuare cu ODT si conectare la PDB1 (XEPDB1) cu student

String conectare :

#### DATA

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#### Biblioteca: Oracle.ManagedDataAccess.Client

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Rulare

### Cu vechiul provider Oracle Client deprecated (doar cu user system)- DAR NU VAD TABELA!!!!

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<c##student cc2=""></c##student>		
Error in FROM clause: near '#'		
Unable to parse query text		
ОК	Canc	el

Caractere ## in nume user neacceptate !!!

### Concluzie:

- User doar pt. baza de date PDB (fara ## in nume)
- Si cu ALL PRIVILEGES

### II. Utilizare ODT cu VS 2022- WEB FORMS:

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#### a) MERGE DOAR CU COD (Add References in Solution!)

```
ODT - Doar cu baze de date PDB (spre exemplu, cu user student) !
```

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Linq;
using System.Reflection.Emit;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using Oracle.ManagedDataAccess;
using Oracle.ManagedDataAccess.Client;
namespace WebApplication20
{
    public partial class WebForm1 : System.Web.UI.Page
    Ł
        OracleConnection conn = new OracleConnection("DATA
SOURCE=localhost:1521/XEPDB1;TNS_ADMIN=C:\\Users\\ioan.filip\\Oracle\\network\\admin
;PASSWORD=student;PERSIST SECURITY INFO=True;USER ID=STUDENT");
        OracleDataAdapter da;
        OracleParameter p1, p2, p3;
        DataSet ds;
        String strSQL;
<mark>//Afisare</mark>
        protected void Page_Load(object sender, EventArgs e)
        Ł
            try
            {
                strSQL = "SELECT * FROM test";
                da = new OracleDataAdapter(strSQL, conn);
                ds = new DataSet();
                da.Fill(ds, "tabela");
                GridView1.DataSource = ds.Tables["tabela"].DefaultView;
                GridView1.DataBind();
            }
            catch (Exception ex)
            Ł
                Label1.Text = "error" + ex.ToString();
            }
        }
//Adaugare
        protected void Button1_Click(object sender, EventArgs e)
        {
            try
            {
                conn.Open();
                string query = "INSERT INTO test values(322,'444',444)";
                OracleCommand cmd = new OracleCommand(query, conn);
                cmd.ExecuteNonQuery();
                conn.Close();
                Label1.Text = "OK- adaugat";
            }
```

```
catch (Exception ex)
{
    Label1.Text = "Eroare- date invalide "; // + ex.ToString();
}
finally
{
    if (conn.State == ConnectionState.Open)
        conn.Close();
}
}
```

#### b) Client Oracle (cel preinstalat in Visual Studio) - doar cu baze de date CDB (spre exemplu, cu user C##student)! Add references System.Data.OracleClient. Modificari in cod anterior:

```
...
//using Oracle.ManagedDataAccess.Client;
using System.Data.OracleClient;
....
//OracleConnection conn = new OracleConnection("DATA
SOURCE=localhost:1521/XEPDB1;TNS_ADMIN=C:\\Users\\ioan.filip\\Oracle\\netw
ork\\admin;PASSWORD=student;PERSIST SECURITY INFO=True;USER ID=STUDENT");
OracleConnection conn = new OracleConnection("Data Source=XE;Persist
Security Info=True;User ID=C##student;Password=student;Unicode=True");
....
```

<u>Concluzie</u>: WEB Forms doar cu cod C# (NU merge in mod cu ODT in mod DESIGN, cu generare de cod ASP.Net pentru controlul SqlDataSource), merge (in mod DESIGN) doar cu vechiul OracleClient!

-