Date: 05/02/2023 Course Code: 5CS322 Course Name: ADS PRN: 21520012 Batch: T1

Assignment No. 2

Title:

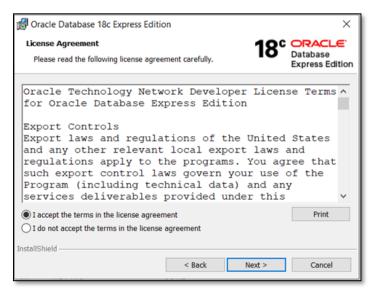
Installation, configuration & testing of Oracle 12c EE / 18c XE

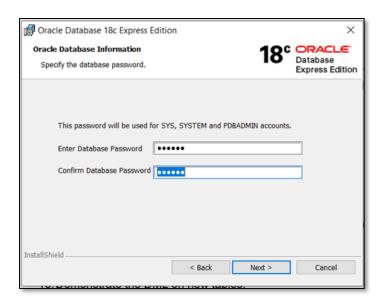
Objective / Aim:

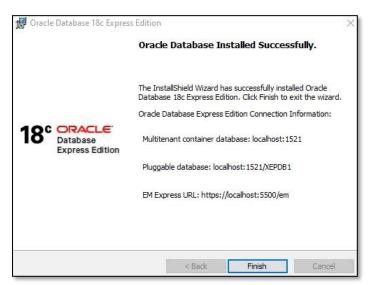
To Study CRUD operations from remote machine configuration

Installation and configuration steps:









Specific settings:

Once you download Oracle 18C XE you have to execute some queries before processing further. Below are some screenshots of some specific queries you need to make connections.

```
Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix .:
Link-local IPv6 Address . . . . : fe80::e2e7:7de8:d868:9965%21
IPv4 Address . . . . . . . . : 10.40.8.215
Subnet Mask . . . . . . . . . : 255.255.224.0
Default Gateway . . . . . . . : 10.40.0.2
```

```
D:\B.Tech\WCE\6th Sem\ADS\Assignments\Parshwa\assignment02>sqlplus system/123@10.40.8.215:1521/XEPDB1
SQL*Plus: Release 18.0.0.0.0 - Production on Sun Feb 5 14:57:46 2023
Version 18.4.0.0.0
Copyright (c) 1982, 2018, Oracle. All rights reserved.
Last Successful login time: Sun Feb 05 2023 14:16:14 +05:30
 Connected to:
Oracle Database 18c Express Edition Release 18.0.0.0.0 - Production Version 18.4.0.0.0
SQL> show user;
USER is "SYSTEM"
 SQL> alter user hr account unlock;
User altered.
SQL> alter user hr identified by hr;
User altered.
SQL> exit
Disconnected from Oracle Database 18c Express Edition Release 18.0.0.0.0 - Production
D:\B.Tech\WCE\6th Sem\ADS\Assignments\Parshwa\assignment02>sqlplus hr/hr@10.40.8.215:1521/XEPDB1
SQL*Plus: Release 18.0.0.0.0 - Production on Sun Feb 5 14:59:42 2023
Version 18.4.0.0.0
Copyright (c) 1982, 2018, Oracle. All rights reserved.
Connected to:
 Pracle Database 18c Express Edition Release 18.0.0.0.0 - Production
Version 18.4.0.0.0
SQL> show user;
USER is "HR"
```

```
SQL> select tname from tab;

TNAME

REGIONS
COUNTRIES
LOCATIONS
DEPARTMENTS
JOBS
EMPLOYEES
JOB_HISTORY
EMP_DETAILS_VIEW

8 rows selected.
```

SQL statements for creating schema, tables:

```
D:\B.Tech\WCE\6th Sem\ADS\Assignments\Parshwa\assignment02>sqlplus system/123@10.40.8.215:1521/XEPDB1

SQL*Plus: Release 18.0.0.0.0 - Production on Sun Feb 5 15:16:30 2023

Version 18.4.0.0.0

Copyright (c) 1982, 2018, Oracle. All rights reserved.

Last Successful login time: Sun Feb 05 2023 15:08:12 +05:30

Connected to:
Oracle Database 18c Express Edition Release 18.0.0.0.0 - Production

Version 18.4.0.0.0
```

```
SQL> create user P_21520008 identified by 21520008;
User created.
```

```
SQL> create user p 21520008 identified by 21520008;
User created.
SQL> grant all privileges to p 21520008;
Grant succeeded.
SQL> exit
Disconnected from Oracle Database 18c Express Edition Release 18.0.0.0.0 - Production
Version 18.4.0.0.0
D:\B.Tech\WCE\6th Sem\ADS\Assignments\Parshwa\assignment02>sqlplus p 21520008/21520008@10.40.8.215:1521/xepdb1
SQL*Plus: Release 18.0.0.0.0 - Production on Sun Feb 5 15:54:26 2023
Version 18.4.0.0.0
Copyright (c) 1982, 2018, Oracle. All rights reserved.
Connected to:
Oracle Database 18c Express Edition Release 18.0.0.0.0 - Production
Version 18.4.0.0.0
SQL> create table product(id int,name varchar(20),price int);
Table created.
SQL> insert into product values(101,'Bag',1000);
1 row created.
SQL> insert into product values(102,'Bottle',500);
1 row created.
SQL> commit;
Commit complete.
SQL> insert into product values(103,'Books',720);
1 row created.
SQL> commit;
Commit complete.
```

Python (.py) source files:

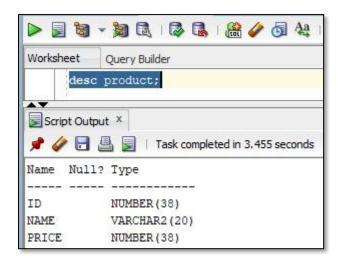
```
from tkinter import *
import tkinter as tk
from tkinter import messagebox
import os
import sys
import cx_Oracle
base = tk.Tk()
base.geometry("550x450")
base.title('CRUD Operations')
# base['background']='#826ff4'
# Connect to the Oracle database
conn = cx Oracle.connect("p 21520008/21520008@192.168.16.159:1521/XEPDB1")
cursor = conn.cursor()
# Function to create a record
def create record():
   id=enter_1.get()
    name = enter_2.get()
    price = enter 3.get()
    cursor.execute("INSERT INTO product (id, name, price) VALUES (:id, :name,
:price)", (id, name, price))
   conn.commit()
    messagebox.showinfo("Information", "Record created successfully.")
# Function to read a record
def read record():
    id=enter 1.get()
    cursor.execute("SELECT * FROM product WHERE id=:id", (id,))
    result = cursor.fetchone()
    if result:
        id=result[0]
        nm=result[1]
        pz=result[2]
        clear()
        enter 4.insert(0,id)
        enter 5.insert(0,nm)
        enter 6.insert(0,pz)
        messagebox.showinfo("Information","Id:{0}, Name:{1},
Price:{2}".format(id,nm,pz))
        messagebox.showinfo("Information", "Record not found.")
# Function to update a record
def update_record():
   id=enter 1.get()
```

```
name = enter_2.get()
    price = enter 3.get()
    cursor.execute("UPDATE product SET name=:name, price=:price WHERE id=:id",
(name, price, id))
    conn.commit()
    messagebox.showinfo("Information", "Record updated successfully.")
# Function to delete a record
def delete record():
    id=enter 1.get()
    cursor.execute("DELETE FROM product WHERE id=:id", (id,))
    conn.commit()
    messagebox.showinfo("Information", "Record deleted successfully.")
#clear the string
def clear():
   enter 4.delete(0,END)
    enter_5.delete(0,END)
    enter 6.delete(0,END)
# Create the labels and entry fields
lbl 0 = Label(base, text="Product Management", width=20,font=("bold",20))
1b1 \ 0.place(x=90,y=60)
lbl_1 =Label(base, text= "Product Id", width=20, font=("bold",10))
lbl 1.place(x=80,y=130)
enter_1 = Entry(base)
enter_1.place(x=240,y=130)
lbl_2 = Label(base, text="Product Name", width=20,font=("bold",10))
1b1\ 2.place(x=80,y=180)
enter 2 = Entry(base)
enter_2.place(x=240,y=180)
lbl_3 =Label(base, text= "Product Price", width=20,font=("bold",10))
lbl_3.place(x=80,y=230)
enter_3 = Entry(base)
enter_3.place(x=240,y=230)
enter_4 = Entry(base)
enter_4.place(x=70,y=280)
enter_5 = Entry(base)
enter_5.place(x=190,y=280)
enter_6 = Entry(base)
enter_6.place(x=310,y=280)
```

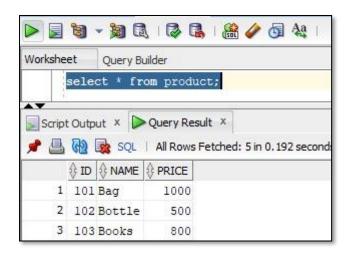
```
Button(base, text='Read' , width=10,
bg="black",fg='white',command=read_record).place(x=50,y=330)
Button(base, text='Insert' , width=10,
bg="black",fg='white',command=create_record).place(x=150,y=330)
Button(base, text='Update' , width=10,
bg="black",fg='white',command=update_record).place(x=250,y=330)
Button(base, text='Delete' , width=10,
bg="black",fg='white',command=delete_record).place(x=350,y=330)
Button(base, text='Exit' , width=10, bg="black",fg='white',
command=base.destroy).place(x=450,y=330)
```

Screen shot of program execution / output / results:

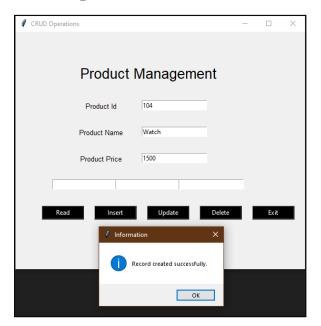
Desc schema:

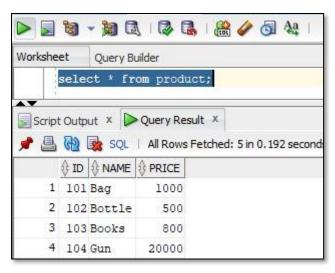


Read Operation:

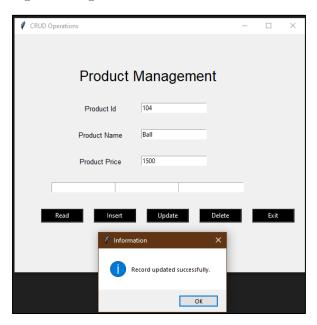


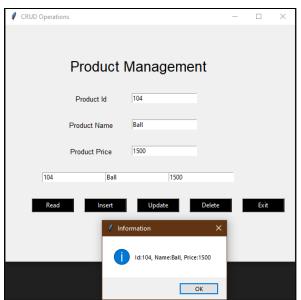
Insert Operation:





Update Operation:





Delete Operation:

