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import mysql.connector
from mysql.connector import errorcode
from datetime import date, datetime, timedelta
from mysql.connector import (connection)
import os
import platform

def clrscreen():
    if platform.system()=="Windows":
        print(os.system("cls"))

def display():
    try:
        os.system('cls')
        cnx = connection.MySQLConnection(user='root', password='yes', host='localhost', database='slambook')
        Cursor = cnx.cursor()
        query = ("SELECT * FROM friends")
        Cursor.execute(query)
        for (id,name,address,phno,eid,hobbies,vfm,dob) in Cursor:
            print("-----")
            print("id           : ",id)
            print("Name          : ",name)
            print("address       : ",address)
            print("phno         : ",phno)
            print("e-mail id    : ",eid)
            print("hobbies      : ",hobbies)
            print("date of birth : ",dob)
            print("What you think about me : ",vfm)
            print("-----")
        Cursor.close()
        cnx.close()
        print("completed !!!!!")
    except mysql.connector.Error as err:
        if err.errno == errorcode.ER_ACCESS_DENIED_ERROR:
            print("Something is wrong with your user name or password")
        elif err.errno == errorcode.ER_BAD_DB_ERROR:
            print("Database does not exist")
        else:
            print(err)
        cnx.close()

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def insertData():
    try:
        cnx = connection.MySQLConnection(user='root',
                                           password='yes',
                                           host='localhost',
                                           database='slambook')

        Cursor = cnx.cursor()
        id=input("Enter id : ")
        name=input("Enter Name : ")
        add=input("Enter address : ")
        ph=int(input("Enter phno : "))
        eid=input("Enter email id : ")
        hobbies=input("Enter hobbies : ")
        dob=input("Enter date of birth (YYYY-MM-DD) : ")
        vfm=input("Enter what your think about me : ")
        sql= "INSERT INTO FRIENDS VALUES(%s,%s,%s,%s,%s,%s,%s,%s)"
        values= (id,name,add,ph,eid,hobbies,vfm,dob,)
        Cursor.execute(sql,values)
        Cursor.execute("COMMIT")
        #Make sure data is committed to the database
        cnx.commit()
        Cursor.close()
        cnx.close()
        print("data saved successfully.....")
    except mysql.connector.Error as err:
        if err.errno == errorcode.ER_ACCESS_DENIED_ERROR:
            print("Something is wrong with your user name or password")
        elif err.errno == errorcode.ER_BAD_DB_ERROR:
            print("Database does not exist")
        else:
            print(err)
        cnx.close()

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def deletedata():
    try:
        cnx = connection.MySQLConnection(user='root',
                                           password='yes',
                                           host='localhost',
                                           database='slambook')

        Cursor = cnx.cursor()
        id=input("Enter id of friend to be deleted : ")
        Qry =("""DELETE FROM Friends WHERE id = %s""")
        del_rec=(id,)
        Cursor.execute(Qry,del_rec)
        #Make sure data is committed to the database
        cnx.commit()
        Cursor.close()
        cnx.close()
        print(Cursor.rowcount,"Record(s) Deleted Successfully.....")
    except mysql.connector.Error as err:
        if err.errno == errorcode.ER_ACCESS_DENIED_ERROR:
            print("Something is wrong with your user name or password")
        elif err.errno == errorcode.ER_BAD_DB_ERROR:
            print("Database does not exist")
        else:
            print(err)
        cnx.close()

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def Searchfrnd():
    try:
        cnx = connection.MySQLConnection(user='root',
                                           password='yes',
                                           host='localhost',
                                           database='slambook')

        Cursor = cnx.cursor()
        id=input("Enter id be Searched from the friends      : ")
        query = ("SELECT * FROM Friends where id = %s ")
        rec_srch=(id,)
        Cursor.execute(query,rec_srch)
        for (id,name,address,phno,eid,hobbies,vfm,dob) in Cursor:
            print("-----")
            print("id                : ",id)
            print("Name                : ",name)
            print("address              : ",address)
            print("phno                : ",phno)
            print("e-mail id            : ",eid)
            print("hobbies              : ",hobbies)
            print("date of birth        : ",dob)
            print("What you think about me : ",vfm)
            print("-----")

        clrscreen()
        print(Cursor.rowcount , "Record(s) found")
        #Make sure data is committed to the database
        cnx.commit()
        Cursor.close()
        cnx.close()
    except mysql.connector.Error as err:
        if err.errno == errorcode.ER_ACCESS_DENIED_ERROR:
            print("Something is wrong with your user name or password")
        elif err.errno == errorcode.ER_BAD_DB_ERROR:
            print("Database does not exist")
        else:
            print(err)
    cnx.close()

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def Updatefrnd():
    try:
        cnx = connection.MySQLConnection(user='root',
                                           password='yes',
                                           host='localhost',
                                           database='slambook')

        Cursor = cnx.cursor()
        id=input("Enter id of frined to be Updated : ")
        query = ("SELECT * FROM Friends where id = %s ")
        rec_srch=(id,)
        print("***** Enter new data ***** ")
        name=input("Enter Name : ")
        add=input("Enter address : ")
        ph=int(input("Enter phno : "))
        eid=input("Enter email id : ")
        hobbies=input("Enter hobbies : ")
        dob=input("Enter date of birth (YYYY-MM-DD) : ")
        vfm=input("Enter what your think about me : ")
        Qry = ("UPDATE Friends SET name=%s,address=%s,"\
              "phoneno=%s "\
              "email_id=%s"\
              "hobbies=%s"\
              "view_for_me=%s"\
              "date_of_birth=%s"\
              "WHERE id=%s")
        data = (name,add,ph,eid,hobbies,vfm,dob)
        Cursor.execute(Qry,data)
        #Make sure data is committed to the database
        cnx.commit()
        Cursor.close()
        cnx.close()
        print(Cursor.rowcount,"Record(s) Updated Successfully.....")
    except mysql.connector.Error as err:
        if err.errno == errorcode.ER_ACCESS_DENIED_ERROR:
            print("Something is wrong with your user name or password")
        elif err.errno == errorcode.ER_BAD_DB_ERROR:
            print("Database does not exist")
        else:
            print(err)
        cnx.close()

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def MenuBook():
    while True:
        clrscr()
        print("\t\t Slam Book Management System \n")
        print("=====")
        print("1. Add Record      ")
        print("2. Display Records ")
        print("3. Search Record   ")
        print("4. Delete Record   ")
        print("5. Update Record   ")
        print("6. Exit            ")
        print("=====")
        choice=int(input("Enter Choice between 1 to 5-----> : "))
        if choice==1:
            insertData()
        elif choice==2:
            display()
        elif choice==3:
            Searchfrnd()
        elif choice==4:
            deletedata()
        elif choice==5:
            Updatefrnd()
        elif choice==6:
            return
        else:
            print("Wrong Choice.....Enter Your Choice again")
            x=input("Enter any key to continue")
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