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# importing module
from pymongo import MongoClient

try:
    # creation of MongoClient
    client=MongoClient()
    print("Connection Successfully!!")
except:
    print("Could Not Connect to MongoDB!!")

# Connect with the portnumber and host
client = MongoClient("mongodb://localhost:27017/")

# Access database
# Method 2 :mydatabase = client['myDB']
mydatabase = client.myDB


# Access collection of the database
# Method 2 : mycollection=mydatabase['user_Table']
mycollection = mydatabase.user_Table



def insert(id,name,age,city):
    # dictionary to be added in the database
    record={
            'ID': id,
            'Name': name,
            'Age': age,
            'city': city
            }

    # inserting the data in the database
    #rec =mycollection.insert_one(record)
    mycollection.insert_one(record)
    print("Data Insert Success")

def update(name, age, city,id):

    # update all the user data with given ID
    result = mycollection.update_many(
        {"ID":id},                  # update filter
        {                           #update action
                "$set":{
                        "Name": name,
                        "Age": age,
                        "city": city
                        },
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                "$currentDate":{"lastModified":True}

                }
        )
    print("Data updated with id",result)
    print("Total Record Updated",result.matched_count)


def showRec():
    # To find() all the entries inside collection name 'user_Table'
    cursor = mycollection.find()
    for record in cursor:
        print(record)


def delete(id):
    # deletes a document of user data with given ID
    deleteFilter = {'ID': id}

    result= mycollection.delete_many(deleteFilter)
    #Alternative you can use delete_one ::
mycollection.delete_one(deleteFilter)

    print("Data deleted with id",result)


while True:
        print("1.Insert Data")
        print("2.Update Data")
        print("3.Print Data")
        print("4.Delete Data")
        print("5.Exit")

        choice = int(input("Enter Your Choice : "))

        if choice == 1:
                id = input("Enter The Id : ")
                name = input("Enter Name : ")
                age = input("Enter Age : ")
                city = input("Enter City : ")
                insert(id, name, age, city)
                #,name, age, city)

        elif choice == 2:
                id = input("Enter the ID to be updated: ")
                name = input("Enter new Name : ")
                age = input("Enter new Age : ")
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        city = input("Enter new City : ")
        update(name, age, city,id)

elif choice == 3:
        showRec()

elif choice == 4:
        id = input("Enter The ID to Delete : ")
        delete(id)

elif choice == 5:
        quit()

else:
        print("Invalid Selection . Please Try Again !")
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