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**Batch – T8 Subject - DBMS**

**Assignment No – B4**

**Title:** Database Connectivity

**Problem Statement:** Write a program to implement MongoDB database connectivity with any front-end language to implement Database navigation operations (add, delete, edit etc.)

**----------------------------------------------------------------**

# 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

}, "$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 : ")

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 !")

**OUTPUT –**

1.Insert Data

2.Update Data

3.Print Data

4.Delete Data

5.Exit

Enter Your Choice : 1

Enter The Id : 101

Enter Name : Ved

Enter Age : 20

Enter City : Pune

Data Insert Success

1.Insert Data

2.Update Data

3.Print Data

4.Delete Data

5.Exit

Enter Your Choice : 3

{'\_id': ObjectId('6158f20ac0a28f8ec453a0cf'), 'ID': '101', 'Name': 'Ved', 'Age': '20', 'city': 'Pune'}

1.Insert Data

2.Update Data

3.Print Data

4.Delete Data

5.Exit

Enter Your Choice : 2

Enter the ID to be updated: 101

Enter new Name : Om

Enter new Age : 19

Enter new City : Pune

Data updated with id <pymongo.results.UpdateResult object at 0x...>

Total Record Updated 1

1.Insert Data

2.Update Data

3.Print Data

4.Delete Data

5.Exit

Enter Your Choice : 3

{'\_id': ObjectId('6158f20ac0a28f8ec453a0cf'), 'ID': '101', 'Name': 'Om', 'Age': '19', 'city': 'Pune'}

1.Insert Data

2.Update Data

3.Print Data

4.Delete Data

5.Exit

Enter Your Choice : 4

Enter The ID to Delete : 101

Data deleted with id <pymongo.results.DeleteResult object at 0x...>

1.Insert Data

2.Update Data

3.Print Data

4.Delete Data

5.Exit

Enter Your Choice : 3

1.Insert Data

2.Update Data

3.Print Data

4.Delete Data

5.Exit

Enter Your Choice : 5