PYMONGO

Création d’une base de données

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")

mydb = myclient["mydatabase"]
```

Vérifier l’existence d ’une BDD

Lister les BDD

```
print(myclient.list_database_names())
```

Vérifier l’existence d ’une BDD

```
dblist = myclient.list_database_names()
if "mydatabase" in dblist:
  print("The database exists.")
```

Créer une collection

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]

mycol = mydb["customers"]
```

Vérifiez si la collection existe

Renvoie une liste de toutes les collections de votre base de données :

```
print(mydb.list_collection_names())
```

Vérifiez si la collection existe

```
collist = mydb.list_collection_names()
if "customers" in collist:
  print("The collection exists.")
```

Delete Collection

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

mycol.drop()
```

Insérer dans la collection

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

mydict = { "name": "John", "address": "Highway 37" }

x = mycol.insert_one(mydict)

print(x.inserted_id)
```

Insérer plusieurs documents

```
mylist = [
  { "name": "Amy", "address": "Apple st 652"},
  { "name": "Hannah", "address": "Mountain 21"},
  { "name": "Michael", "address": "Valley 345"},
  { "name": "Sandy", "address": "Ocean blvd 2"},
  { "name": "Betty", "address": "Green Grass 1"},
  { "name": "Richard", "address": "Sky st 331"},
  { "name": "Susan", "address": "One way 98"},
  { "name": "Vicky", "address": "Yellow Garden 2"},
  { "name": "Ben", "address": "Park Lane 38"},
  { "name": "William", "address": "Central st 954"},
  { "name": "Chuck", "address": "Main Road 989"},
  { "name": "Viola", "address": "Sideway 1633"}
]
x = mycol.insert_many(mylist)
#print list of the _id values of the inserted documents:
print(x.inserted_ids)
```

Insérer plusieurs documents avec _id

```
mylist = [
  { "_id": 1, "name": "John", "address": "Highway 37"},
  { "_id": 2, "name": "Peter", "address": "Lowstreet 27"},
  { "_id": 3, "name": "Amy", "address": "Apple st 652"},
  { "_id": 4, "name": "Hannah", "address": "Mountain 21"},
  { "_id": 5, "name": "Michael", "address": "Valley 345"}
]

x = mycol.insert_many(mylist)

#print list of the _id values of the inserted documents:
print(x.inserted_ids)
```

Mettre à jour la collection

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

myquery = { "address": "Valley 345" }
newvalues = { "$set": { "address": "Canyon 123" } }

mycol.update_one(myquery, newvalues)

#print "customers" after the update:
for x in mycol.find():
  print(x)
```

Update Many

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

myquery = { "address":   "Valley 345"  }
newvalues = { "$set": { "name": "Minnie" } }

x = mycol.update_many(myquery, newvalues)

print(x.modified_count, "documents updated.")
```

Supprimer un document

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

myquery = { "address": "Mountain 21" }

mycol.delete_one(myquery)
```

Delete Many Documents

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

myquery = { "address": "Mountain 21"}

x = mycol.delete_many(myquery)

print(x.deleted_count, " documents deleted.")
```

Supprimer tous les documents d'une collection

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

x = mycol.delete_many({})

print(x.deleted_count, " documents deleted.")
```

Find_one

```
import pymongo

myclient =
pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

x = mycol.find_one()

print(x)
```

Find all

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

for x in mycol.find():
  print(x)
```

Renvoie uniquement certains champs

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

for x in mycol.find({},{ "_id": 0, "name": 1, "address": 1 }):
  print(x)
```

Renvoie uniquement certains champs

```
import pymongo

myclient =
pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

for x in mycol.find({},{ "address": 0 }):
  print(x)
```

Filtrer le résultat

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

myquery = { "address": "Park Lane 38" }

mydoc = mycol.find(myquery)

for x in mydoc:
  print(x)
```

Filtrer le résultat

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

myquery = { "address": { "$gt": "S" } }

mydoc = mycol.find(myquery)

for x in mydoc:
  print(x)
```

Trier le résultat ASC

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

mydoc = mycol.find().sort("name")

for x in mydoc:
  print(x)
```

Trier le résultat DESC

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

mydoc = mycol.find().sort("name", -1)

for x in mydoc:
  print(x)
```

Limiter le résultat

```
import pymongo

myclient = pymongo.MongoClient("mongodb://localhost:27017/")
mydb = myclient["mydatabase"]
mycol = mydb["customers"]

myresult = mycol.find().limit(5)

#print the result:
for x in myresult:
  print(x)
```