PYMONGO

INSERT

```
import pymongo


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

mydb = myclient["mydatabase"]

mycol = mydb["Employee"]


mylist = [

   {"empid": "1", "name": "Amy", "department": "cs", "designation": "teacher", "salary": "40000"},

   {"empid": "2", "name": "Hannah", "department": "mech", "designation": "teacher", "salary": "40000"},

   {"empid": "3", "name": "Michael", "department": "electronics", "designation": "manager", "salary": "50000"},

   {"empid": "4", "name": "Sandy", "department": "cs", "designation": "clerk", "salary": "25000"},

   {"empid": "5", "name": "Betty", "department": "electronics", "designation": "officer", "salary": "45000"},

   {"empid": "6", "name": "Richard", "department": "cs", "designation": "teacher", "salary": "40000"},

        {"empid": "7", "name": "Susan", "department": "mech", "designation": "officer", "salary": "45000"},
```

{"empid": "8", "name": "Vicky", "department": "mech", "designation": "teacher", "salary": "40000"},

{"empid": '9', "name": "Ben", "department": "cs", "designation": "manager", "salary": "50000"},

{"empid": "10", "name": "William", "department": "electronics", "designation": "teacher", "salary": "40000"},]

```
x = mycol.insert_many(mylist)

print(x.inserted_ids)
```

Output

{'_id': ObjectId('6295dd932a5e7a68c68e00f0'), 'empid': '1', 'name': 'Amy', 'department': 'cs', 'designation': 'teaching staff', 'salary': '50000'}

{'_id': ObjectId('6295dd932a5e7a68c68e00f1'), 'empid': '2', 'name': 'Hannah', 'department': 'electronics', 'designation': 'manager', 'salary': '40000'}

{'_id': ObjectId('6295dd932a5e7a68c68e00f2'), 'empid': '3', 'name': 'Michael', 'department': 'electronics', 'designation': 'clerk', 'salary': '30000'}

{'_id': ObjectId('6295dd932a5e7a68c68e00f3'), 'empid': '4', 'name': 'Sandy', 'department': 'electronics', 'designation': 'salesman', 'salary': '20000'}
{'_id': ObjectId('6295dd932a5e7a68c68e00f4'), 'empid': '5', 'name': 'Betty', 'department': 'mechanical', 'designation': 'salesman', 'salary': '10000'}

{'_id': ObjectId('6295dd932a5e7a68c68e00f5'), 'empid': '6', 'name': 'Richard', 'department': 'cs', 'designation': 'manager', 'salary': '60000'}

{'_id': ObjectId('6295dd932a5e7a68c68e00f6'), 'empid': '7', 'name': 'Susan', 'department': 'music', 'designation': 'musician', 'salary': '70000'}

{'_id': ObjectId('6295dd932a5e7a68c68e00f7'), 'empid': '8', 'name': 'Vicky', 'department': 'mechanial', 'designation': 'clerk', 'salary': '30000'}

{'_id': ObjectId('6295dd932a5e7a68c68e00f8'), 'empid': '9', 'name': 'Ben', 'department': 'music', 'designation': 'teacher', 'salary': '50000'}

{'_id': ObjectId('6295dd932a5e7a68c68e00f9'), 'empid': '10', 'name': 'William', 'department': 'cs', 'designation': 'salesman', 'salary': '20000'}

Find

Find All

```
import pymongo

print("select all")

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

mydb = myclient["mydatabase"]

mycol = mydb["Employee"]


for x in mycol.find():

print(x)
```

Find one

```
print("select one")

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

mydb = myclient["mydatabase"]

mycol = mydb["Employee"]


x = mycol.find_one()


print(x)
```

Find some

```
print("select some")

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)
```

Output

select all

{'_id': ObjectId('6295dcfd6e874e18610793d2'), 'empid': '1', 'name': 'Amy', 'department': 'Computer', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('6295dcfd6e874e18610793d3'), 'empid': '2', 'name': 'Hannah', 'department': 'mech', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('6295dcfd6e874e18610793d4'), 'empid': '3', 'name': 'Michael', 'department': 'electronics', 'designation': 'manager', 'salary': '50000'}

{'_id': ObjectId('6295dcfd6e874e18610793d5'), 'empid': '4', 'name': 'Sandy', 'department': 'Computer', 'designation': 'clerk', 'salary': '25000'}

{'_id': ObjectId('6295dcfd6e874e18610793d6'), 'empid': '5', 'name': 'Betty', 'department': 'electronics', 'designation': 'officer', 'salary': '45000'}

{'_id': ObjectId('6295dcfd6e874e18610793d7'), 'empid': '6', 'name': 'Richard', 'department': 'cs', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('6295dcfd6e874e18610793d8'), 'empid': '7', 'name': 'Susan', 'department': 'mech', 'designation': 'officer', 'salary': '45000'}

{'_id': ObjectId('6295dcfd6e874e18610793d9'), 'empid': '8', 'name': 'Vicky', 'department': 'mech', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('6295dcfd6e874e18610793da'), 'empid': '9', 'name': 'Ben', 'department': 'cs', 'designation': 'manager', 'salary': '50000'}

{'_id': ObjectId('6295dcfd6e874e18610793db'), 'empid': '10', 'name': 'William', 'department': 'electronics', 'designation': 'teacher', 'salary': '40000'}

select one

{'_id': ObjectId('6295dcfd6e874e18610793d2'), 'empid': '1', 'name': 'Amy', 'department': 'Computer', 'designation': 'teacher', 'salary': '40000'}

select some

{'name': 'John', 'address': 'Highway 37'}

Sort

Sort in ascending order

```
import pymongo

print("sort in ascending order")

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

mydb = myclient["mydatabase"]

mycol = mydb["Employee"]


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


for x in mydoc:

 print(x)
```

Sort in descending order

```
import pymongo


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

mydb = myclient["mydatabase"]

mycol = mydb["Employee"]


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

```
for x in mydoc:

 print(x)
```

Output

sort in ascending order

{'_id': ObjectId('6295dcfd6e874e18610793d2'), 'empid': '1', 'name': 'Amy', 'department': 'Computer', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('6295dcfd6e874e18610793da'), 'empid': '9', 'name': 'Ben', 'department': 'cs', 'designation': 'manager', 'salary': '50000'}

{'_id': ObjectId('6295dcfd6e874e18610793d6'), 'empid': '5', 'name': 'Betty', 'department': 'electronics', 'designation': 'officer', 'salary': '45000'}

{'_id': ObjectId('629dbffc0869e4f0a89e019a'), 'empid': '2',, 'department': 'Computer', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('629dc0134864a5276e0bc191'), 'empid': '2', 'name': 'Hannah', 'department': 'mech', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('6295dcfd6e874e18610793d4'), 'empid': '3', 'name': 'Michael', 'department': 'electronics', 'designation': 'manager', 'salary': '50000'}

{'_id': ObjectId('6295dcfd6e874e18610793d7'), 'empid': '6', 'name': 'Richard', 'department': 'cs', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('6295dcfd6e874e18610793d5'), 'empid': '4', 'name': 'Sandy', 'department': 'Computer', 'designation': 'clerk', 'salary': '25000'}

{'_id': ObjectId('6295dcfd6e874e18610793d8'), 'empid': '7', 'name': 'Susan', 'department': 'mech', 'designation': 'officer', 'salary': '45000'}

{'_id': ObjectId('6295dcfd6e874e18610793d9'), 'empid': '8', 'name': 'Vicky', 'department': 'mech', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('6295dcfd6e874e18610793db'), 'empid': '10', 'name': 'William', 'department': 'electronics', 'designation': 'teacher', 'salary': '40000'}

sort in descending order

{'_id': ObjectId('6295dcfd6e874e18610793db'), 'empid': '10', 'name': 'William', 'department': 'electronics', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('6295dcfd6e874e18610793d9'), 'empid': '8', 'name': 'Vicky', 'department': 'mech', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('629dc0244a9ec924863e05b8'), 'empid': '7', 'name': 'Susan', 'department': 'mech', 'designation': 'officer', 'salary': '45000'}

{'_id': ObjectId('6295dcfd6e874e18610793d5'), 'empid': '4', 'name': 'Sandy', 'department': 'Computer', 'designation': 'clerk', 'salary': '25000'}

{'_id': ObjectId('6295dcfd6e874e18610793d7'), 'empid': '6', 'name': 'Richard', 'department': 'cs', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('6295dcfd6e874e18610793d4'), 'empid': '3', 'name': 'Michael', 'department': 'electronics', 'designation': 'manager', 'salary': '50000'}

{'_id': ObjectId('629dbffc0869e4f0a89e019a'), 'empid': '2', 'name': 'Hannah', 'department': 'mech', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('6295dcfd6e874e18610793d6'), 'empid': '5', 'name': 'Betty', 'department': 'electronics', 'designation': 'officer', 'salary': '45000'}

{'_id': ObjectId('6295dcfd6e874e18610793da'), 'empid': '9', 'name': 'Ben', 'department': 'cs', 'designation': 'manager', 'salary': '50000'}

{'_id': ObjectId('6295dcfd6e874e18610793d2'), 'empid': '1', 'name': 'Amy', 'department': 'Computer', 'designation': 'teacher', 'salary': '40000'}

Update

Update one

```
import pymongo

print("update one")

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

mydb = myclient["mydatabase"]

mycol = mydb["Employee"]


myquery = { "department": "cs" }

newvalues = { "$set": { "department": "Computer" } }


mycol.update_one(myquery, newvalues)


for x in mycol.find():

 print(x)
```

Update many

```
print("update many")

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

mydb = myclient["mydatabase"]

mycol = mydb["Employee"]
```

```
myquery = { "name": { "$regex": "^H" } }

newvalues = { "$set": { "name": "Minnie" } }


x = mycol.update_many(myquery, newvalues)


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

Output

update one

{'_id': ObjectId('6295dcfd6e874e18610793d2'), 'empid': '1', 'name': 'Amy', 'department': 'Computer', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('6295dcfd6e874e18610793d3'), 'empid': '2', 'name': 'Minnie', 'department': 'mech', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('6295dcfd6e874e18610793d4'), 'empid': '3', 'name': 'Michael', 'department': 'electronics', 'designation': 'manager', 'salary': '50000'}

{'_id': ObjectId('6295dcfd6e874e18610793d5'), 'empid': '4', 'name': 'Sandy', 'department': 'Computer', 'designation': 'clerk', 'salary': '25000'}

{'_id': ObjectId('6295dcfd6e874e18610793d6'), 'empid': '5', 'name': 'Betty', 'department': 'electronics', 'designation': 'officer', 'salary': '45000'}

{'_id': ObjectId('6295dcfd6e874e18610793d7'), 'empid': '6', 'name': 'Richard', 'department': 'Computer', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('6295dcfd6e874e18610793d8'), 'empid': '7', 'name': 'Susan', 'department': 'mech', 'designation': 'officer', 'salary': '45000'}

{'_id': ObjectId('6295dcfd6e874e18610793d9'), 'empid': '8', 'name': 'Vicky', 'department': 'mech', 'designation': 'teacher', 'salary': '40000'}

{'_id': ObjectId('6295dcfd6e874e18610793da'), 'empid': '9', 'name': 'Ben', 'department': 'cs', 'designation': 'manager', 'salary': '50000'}

{'_id': ObjectId('6295dcfd6e874e18610793db'), 'empid': '10', 'name': 'William', 'department': 'electronics', 'designation': 'teacher', 'salary': '40000'}

update many

3 documents updated.

Delete

Delete one

```
import pymongo

print("Delete one")

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

mydb = myclient["mydatabase"]

mycol = mydb["Employee"]


myquery = { "department": "electronics" }


mycol.delete_one(myquery)
```

Delete many

```
print("Delete many")

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

mydb = myclient["mydatabase"]

mycol = mydb["Employee"]


myquery = { "department": {"$regex": "^m"} }


x = mycol.delete_many(myquery)


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

Delete All

```
print("Delete all")

import pymongo


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

mydb = myclient["mydatabase"]

mycol = mydb["Employee"]


x = mycol.delete_many({})
```

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

Output

Delete one

```
1 document deleted
```

Delete many

```
3  documents deleted.
```

Delete all

```
7  documents deleted.
```