

```
In [1]: !pip install pymongo
```

Collecting pymongo

Obtaining dependency information for pymongo from https://files.pythonhosted.org/packages/4d/88/7b9bfad1ad6269e0b9e0bb39d093aabc27837da4ccb93391cda68f580984/pymongo-4.5.0-cp311-cp311-win_amd64.whl.metadata (https://files.pythonhosted.org/packages/4d/88/7b9bfad1ad6269e0b9e0bb39d093aabc27837da4ccb93391cda68f580984/pymongo-4.5.0-cp311-cp311-win_amd64.whl.metadata)

Downloading pymongo-4.5.0-cp311-cp311-win_amd64.whl.metadata (22 kB)

Collecting dnspython<3.0.0,>=1.16.0 (from pymongo)

Obtaining dependency information for dnspython<3.0.0,>=1.16.0 from <https://files.pythonhosted.org/packages/f6/b4/0a9bee52c50f226a3cbfb54263d02bb421c7f2adc136520729c2c689c1e5/dnspython-2.4.2-py3-none-any.whl.metadata> (<https://files.pythonhosted.org/packages/f6/b4/0a9bee52c50f226a3cbfb54263d02bb421c7f2adc136520729c2c689c1e5/dnspython-2.4.2-py3-none-any.whl.metadata>)

Downloading dnspython-2.4.2-py3-none-any.whl.metadata (4.9 kB)

Downloading pymongo-4.5.0-cp311-cp311-win_amd64.whl (468 kB)

----- 0.0/468.2 kB ? eta -:--:--

----- 468.2/468.2 kB 28.6 MB/s eta 0:00:00

Downloading dnspython-2.4.2-py3-none-any.whl (300 kB)

----- 0.0/300.4 kB ? eta -:--:--

----- 300.4/300.4 kB 18.1 MB/s eta 0:00:00

Installing collected packages: dnspython, pymongo

Successfully installed dnspython-2.4.2 pymongo-4.5.0

```
In [2]: from pymongo import MongoClient
```

```
In [3]: client = MongoClient("mongodb://localhost:27017/")
```

```
In [4]: db = client['test-db']
```

```
In [5]: print(client.list_database_names())
```

```
['SALES', 'admin', 'config', 'local']
```

```
In [7]: import datetime
post = {"author": "Mike",
        "text": "My first blog post!",
        "tags": ["mongodb", "python", "pymongo"],
        "date": datetime.datetime.utcnow() }
post
```

```
Out[7]: {'author': 'Mike',
        'text': 'My first blog post!',
        'tags': ['mongodb', 'python', 'pymongo'],
        'date': datetime.datetime(2023, 8, 29, 6, 37, 8, 30500)}
```

```
In [8]: posts = db.posts
```

```
In [9]: post_id = posts.insert_one(post)
print(post_id)
```

```
<pymongo.results.InsertOneResult object at 0x0000024028401870>
```

```
In [10]: new_posts = [
    { "author": "Mike", "text": "Another post!", "tags": ["bulk", "insert"],
      "date": datetime.datetime(2009, 11, 12, 11, 14) },
    { "author": "Eliot", "title": "MongoDB is fun", "text": "and pretty easy too!",
      "date": datetime.datetime(2009, 11, 10, 10, 45) }
  ]
```

```
In [11]: result = posts.insert_many(new_posts)
```

```
In [23]: for d in db['posts'].find():
    print(d['author'],d['text'])
```

Mike My first blog post!
Mike Another post!
Eliot and pretty easy too!

```
In [25]: print(db.posts.find_one({'author':'Mike'})['text'])
```

My first blog post!

```
In [26]: for d in db['posts'].find({}, {'text' : 0}):
    print(d)
```

```
{ '_id': ObjectId('64ed923eddef6b7a528ffe06'), 'author': 'Mike', 'tags': ['mongodb', 'python', 'pymongo'], 'date': datetime.datetime(2023, 8, 29, 6, 37, 8, 30000) }
{ '_id': ObjectId('64ed9264ddef6b7a528ffe07'), 'author': 'Mike', 'tags': ['bulk', 'insert'], 'date': datetime.datetime(2009, 11, 12, 11, 14) }
{ '_id': ObjectId('64ed9264ddef6b7a528ffe08'), 'author': 'Eliot', 'title': 'MongoDB is fun', 'date': datetime.datetime(2009, 11, 10, 10, 45) }
```

```
In [27]: import pprint
pprint.pprint(posts.find_one())
```

```
{'_id': ObjectId('64ed923eddef6b7a528ffe06'),
 'author': 'Mike',
 'date': datetime.datetime(2023, 8, 29, 6, 37, 8, 30000),
 'tags': ['mongodb', 'python', 'pymongo'],
 'text': 'My first blog post!'}
```

```
In [28]: pprint.pprint(posts.find_one({"author": "Mike"}))
```

```
{'_id': ObjectId('64ed923eddef6b7a528ffe06'),
 'author': 'Mike',
 'date': datetime.datetime(2023, 8, 29, 6, 37, 8, 30000),
 'tags': ['mongodb', 'python', 'pymongo'],
 'text': 'My first blog post!'}
```

```
In [29]: import pprint
for post in posts.find({"author": "Mike"}):
    pprint.pprint(post)
```

```
{'_id': ObjectId('64ed923eddef6b7a528ffe06'),
 'author': 'Mike',
 'date': datetime.datetime(2023, 8, 29, 6, 37, 8, 30000),
 'tags': ['mongodb', 'python', 'pymongo'],
 'text': 'My first blog post!'}
{'_id': ObjectId('64ed9264ddef6b7a528ffe07'),
 'author': 'Mike',
 'date': datetime.datetime(2009, 11, 12, 11, 14),
 'tags': ['bulk', 'insert'],
 'text': 'Another post!'}
```

```
In [ ]:
```

