Database

Python & MongoDB

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Connect Python to MongoDB Database

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mongoDB

PyMongo

PyMongo is a Python distribution containing tools for working with MongoDB & the recommended way to work with MongoDB from Python.

- Install PyMongo:

```
$ pip install pymongo
```

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Using PyMongoDB

#1 Make a Connection

```
import pymongo as p
client = p.MongoClient("mongodb://localhost:27017/")

# get all db name = show dbs
print(myclient.list_database_names())
```

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Using PyMongoDB

#2 Create Db & Col

```
import pymongo as p
client = p.MongoClient("mongodb://localhost:27017/")

# create database & collection
mydb = client["databaseku"]
mycol = mydb["collectionku"]

# list of databases & collections
print(myclient.list_database_names())
print(mydb.list_collection_names())
```

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Using PyMongoDB

#3 Insert data

```
import pymongo as p
client = p.MongoClient("mongodb://localhost:27017/")

# create database & collection
mydb = client["databaseku"]
mycol = mydb["collectionku"]

# insert data
mydata = { "nama": "Andi", "usia": "27" }
x = mycol.insert_one(mydata)

# return inserted id
print(x.inserted_id)
```

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Using PyMongoDB

#4 Find data

```
import pymongo as p
client = p.MongoClient("mongodb://localhost:27017/")

# create database & collection
mydb = client["databaseku"]
mycol = mydb["collectionku"]

# print all data as list
print(list(mycol.find()))

# print every data
for x in mycol.find():
  print(x)
```

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Using PyMongoDB

#4 Find by data props

```
import pymongo as p
client = p.MongoClient("mongodb://localhost:27017/")

# create database & collection
mydb = client["databaseku"]
mycol = mydb["collectionku"]

# find data dg nama = 'Andi'
myquery = { "nama": "Andi" }
mydoc = mycol.find(myquery)

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

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Using PyMongoDB

#5 Delete by data props

```
import pymongo as p
client = p.MongoClient("mongodb://localhost:27017/")

# create database & collection
mydb = client["databaseku"]
mycol = mydb["collectionku"]

# delete data dg nama = 'Andi'
myquery = { "nama": "Andi" }
mycol.delete_one(myquery)
```

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Using PyMongoDB

#6 Update data

```
import pymongo as p
client = p.MongoClient("mongodb://localhost:27017/")

# create database & collection
mydb = client["databaseku"]
mycol = mydb["collectionku"]

# update data
myquery = { "nama": "Budi" }
newvalues = { "$set": { "nama": "Bambang" } }
mycol.update_one(myquery, newvalues)

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

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