

Python III

HIGHER DIPLOMA IN DATA ANALYTICS



pymongo

- ▶ `client = pymongo.MongoClient()`
- ▶ `client = pymongo.MongoClient(host="localhost", port="27017")`
- ▶ `try`
`client.admin.command('ismaster')`



Database and Collections

- ▶ `mydb = myclient["cars"]`
- ▶ `cols = mydb.list_collection_names()`
- ▶ `docs = mydb["docs"]`



find()

- ▶ `people = docs.find({"age":{"$gt":18}})`
- ▶ `for person in people:`
 `print(person["Name"])`



find()

- ▶ `people = docs.find({"age":{"$gt":18}}, {"_id":0})`
- ▶ `people = docs.find({"age":{"$gt":18}}, limit=2)`



insert_one()

- ▶ `newDoc = {"_id":991, "name":"John", "age":44}`
- ▶ `mycol.insert_one(doc)`



insert_many()

- ▶ `newDocs = [{"_id":991, "name":"John", "age":44},
{"_id":992, "name":"Mary", "age":24},
{"_id":992, "name":"Mary", "age":35}]`
- ▶ `mycol.insert_many(newDocs)`



Exceptions

- ▶ pymongo.errors.ConnectionFailure
- ▶ pymongo.errors.DuplicateKeyError

```
newDocs = [{"_id":991, "name":"John", "age":44},  
           {"_id":992, "name":"Mary", "age":24},  
           {"_id":992, "name":"Mary", "age":35}]
```

```
mycol.insert_many(newDocs) ordered=False)
```



delete_one()

- ▶ `filter = {"age":{"$gt":44}}`
- ▶ `mycol.delete_one(filter)`
- ▶ `mycol.delete_one({"age":{"$gt":44}})`



delete_many()

- ▶ `filter = {"age":{"$gt":44}}`
- ▶ `result = mycol.delete_many(filter)`
- ▶ DeleteResult
- ▶ `print(result.deleted_count)`



update_one()

- ▶ `filter = {"age":{"$gt":44}}`
- ▶ `update = {"$inc":{"age":1}}`
- ▶ `mycol.update_one(filter, update)`



update_many()

- ▶ `filter = {"age":{"$gt":44}}`
- ▶ `update = {"$inc":{"age":1}}`
- ▶ `result = mycol.update_many(filter, update)`
- ▶ UpdateResult
- ▶ `print(result.modified_count)`



Review

- ▶ MySQL
- ▶ MongoDB
- ▶ Python

