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IST 652, Week 7

Activity 7.4: MongoDB

Code:

﻿# Exercise

import pymongo

from pymongo import MongoClient

client = MongoClient('localhost', 27017)

client.database\_names()

# people database

db = client.peopledb

db.collection\_names()

# Create a new collection or use an existing collection

peoplecoll = db.people

type(peoplecoll)

peoplelist = [{ "name": "Britney Sykes", "age": 21 , 'position':'Guard'},

{ "name": "Briana Day", "age": 19, 'position':'Center'},

{ "name": "Alexis Peterson", "age": 21, 'position':'Guard' },

{ "name": "Gabby Cooper", "age": 18, 'position':'Guard'}]

peoplecoll.insert\_many(peoplelist)

docs = peoplecoll.find()

type(docs)

for doc in docs:

print(doc)

# Query

results = peoplecoll.find({"age": {"$lt": 20}})

for result in results:

print(result)

# drop the database if necessary (I made mistakes and had to do this)

peoplecoll.drop()

Output:

﻿﻿﻿import pymongo

from pymongo import MongoClient

client = MongoClient('localhost', 27017)

client.database\_names()

\_\_main\_\_:1: DeprecationWarning: database\_names is deprecated. Use list\_database\_names instead.

Out[63]: ['admin', 'config', 'local']

# people database

db = client.peopledb

db.collection\_names()

\_\_main\_\_:1: DeprecationWarning: collection\_names is deprecated. Use list\_collection\_names instead.

Out[66]: []

# Create a new collection or use an existing collection

peoplecoll = db.people

type(peoplecoll)

Out[69]: pymongo.collection.Collection

peoplelist = [{ "name": "Britney Sykes", "age": 21 , 'position':'Guard'},

{ "name": "Briana Day", "age": 19, 'position':'Center'},

{ "name": "Alexis Peterson", "age": 21, 'position':'Guard' },

{ "name": "Gabby Cooper", "age": 18, 'position':'Guard'}]

peoplecoll.insert\_many(peoplelist)

Out[71]: <pymongo.results.InsertManyResult at 0x116a756e0>

docs = peoplecoll.find()

type(docs)

Out[73]: pymongo.cursor.Cursor

for doc in docs:

print(doc)

{'\_id': ObjectId('5eb9f47f4378df136fe23120'), 'name': 'Britney Sykes', 'age': 21, 'position': 'Guard'}

{'\_id': ObjectId('5eb9f47f4378df136fe23121'), 'name': 'Briana Day', 'age': 19, 'position': 'Center'}

{'\_id': ObjectId('5eb9f47f4378df136fe23122'), 'name': 'Alexis Peterson', 'age': 21, 'position': 'Guard'}

{'\_id': ObjectId('5eb9f47f4378df136fe23123'), 'name': 'Gabby Cooper', 'age': 18, 'position': 'Guard'}

# Query

results = peoplecoll.find({"age": {"$lt": 20}})

for result in results:

print(result)

{'\_id': ObjectId('5eb9f47f4378df136fe23121'), 'name': 'Briana Day', 'age': 19, 'position': 'Center'}

{'\_id': ObjectId('5eb9f47f4378df136fe23123'), 'name': 'Gabby Cooper', 'age': 18, 'position': 'Guard'}