(base) C:\Users\ASG>cd Desktop

(base) C:\Users\ASG\Desktop>python ds8_mongodb.py

Requirement already satisfied: pymongo in c:\programdata\anaconda_3\lib\site-packages (3.9.0)

'sudo' is not recognized as an internal or external command,

operable program or batch file.

db = client.test

Database(MongoClient(host=['cluster0-shard-00-02-wymel.mongodb.net:27017', 'cluster0-shard-00-00-wymel.mongodb.net:27017', 'cluster0-shard-00-01-wymel.mongodb.net:27017'], document_class=dict, tz_aware=False, connect=True, ssl=True, replicaset='Cluster0-shard-0', authsource='admin', retrywrites=True, w='majority'), 'test')

The machines incorporated into the cluster

frozenset()

The directory of db.test

['_BaseObject__codec_options', '_BaseObject__read_concern', '_BaseObject__read_preference', '_BaseObject__write_concern', '_Collection__create', '_Collection__create_index', '_Collection__database', '_Collection__find_and_modify', '_Collection__full_name', '_Collection__name', '_Collection__write_response_codec_options', '__call__', '__class__', '__delattr__', '__dict__', '__dir__', '__doc__', '__eq__', '__format__', '__ge__', '__getattr__', '__getattribute__', '__getitem__', '__gt__', '__hash__', '__init__', '__init_subclass__', '__iter__', '__le__', '__lt__', '__module__', '__ne__', '__new__', '__next__', '__reduce__', '__reduce_ex__', '__repr__', '__setattr__', '__sizeof__', '__str__', '__subclasshook__', '__weakref__', '_aggregate', '_aggregate_one_result', '_command', '_count', '_delete', '_delete_retryable', '_insert', '_insert_one', '_legacy_write', '_map_reduce', '_read_preference_for', '_socket_for_reads', '_socket_for_writes', '_update', '_update_retryable', '_write_concern_for', '_write_concern_for_cmd', 'aggregate', 'aggregate_raw_batches', 'bulk_write', 'codec_options', 'count', 'count_documents', 'create_index', 'create_indexes', 'database', 'delete_many', 'delete_one', 'distinct', 'drop', 'drop_index', 'drop_indexes', 'ensure_index', 'estimated_document_count', 'find', 'find_and_modify', 'find_one', 'find_one_and_delete', 'find_one_and_replace', 'find_one_and_update', 'find_raw_batches', 'full_name', 'group', 'index_information', 'initialize_ordered_bulk_op', 'initialize_unordered_bulk_op', 'inline_map_reduce', 'insert', 'insert_many', 'insert_one', 'list_indexes', 'map_reduce', 'name', 'next',

'options', 'parallel_scan', 'read_concern', 'read_preference', 'reindex', 'remove', 'rename', 'replace_one', 'save', 'update', 'update_many', 'update_one', 'watch', 'with_options', 'write_concern']

The number of documents after a document has been inserted

3

The result of the find_one command

{'_id': ObjectId('5d9e3f711c4000d7596691f3'), 'x': 1}

The result of the find command

<pymongo.cursor.Cursor object at 0x000001CC19174EF0>

The directory of the cursor

[{'_id': ObjectId('5d9e3f711c4000d7596691f3'), 'x': 1},

 {'_id': ObjectId('5d9e3fb81c4000d7596691f4'), 'x': 1},

 {'_id': ObjectId('5dc36718d7fe330b2ca00f6c'), 'x': 1}]

The list of newly added items

[{'_id': ObjectId('5d9e3f711c4000d7596691f3'), 'x': 1},

 {'_id': ObjectId('5d9e3fb81c4000d7596691f4'), 'x': 1},

 {'_id': ObjectId('5d9e48a71c4000d7596691f5'), 'favorite_animal': 'Dog'},

 {'_id': ObjectId('5d9e48a71c4000d7596691f6'),

  'favorite_animal': 'Cat',

  'favorite_color': ' Blue'},

 {'_id': ObjectId('5d9e48a71c4000d7596691f7'), 'favorite_animal': 'Ape'},

{'_id': ObjectId('5d9e49941c4000d7596691f8'), 'even': True, 'value': 10},

{'_id': ObjectId('5d9e49941c4000d7596691fa'), 'even': True, 'value': 12},

{'_id': ObjectId('5d9e49941c4000d7596691fc'), 'even': True, 'value': 19},

{'_id': ObjectId('5d9e49941c4000d7596691fe'), 'even': True, 'value': 16},

{'_id': ObjectId('5d9e49941c4000d759669200'), 'even': True, 'value': 18},

{'_id': ObjectId('5d9e4b6d1c4000d759669202'),

 'rpg_character': [1, 'King Bob', 10, 3, 0, 0, 0]},

{'_id': ObjectId('5d9e4fe01c4000d759669203'),

 'hp': 10,

 'level': 3,

 'name': 'King Bob',

 'sql_id': 1},

{'_id': ObjectId('5dc36718d7fe330b2ca00f6c'), 'x': 1},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f6d'),

 'favorite animal': ['Kokopo', 'Dog']},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f6e'),

 'favorite animal': 'Snakes',

 'favorite color': 'Cyan'},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f6f'), 'favorite animal': 'Red Panda'}]

Viewing additional documents that were made

[{'even': True, 'value': 0},

 {'even': False, 'value': 1},

 {'even': True, 'value': 2},

 {'even': False, 'value': 3},

 {'even': True, 'value': 4},

 {'even': False, 'value': 5},

 {'even': True, 'value': 6},

{'even': False, 'value': 7},

{'even': True, 'value': 8},

{'even': False, 'value': 9}]

Finding items that are labeled even

[{'_id': ObjectId('5dc3671ad7fe330b2ca00f71'), 'even': False, 'value': 1},

 {'_id': ObjectId('5dc3671ad7fe330b2ca00f73'), 'even': False, 'value': 3},

 {'_id': ObjectId('5dc3671ad7fe330b2ca00f75'), 'even': False, 'value': 5},

 {'_id': ObjectId('5dc3671ad7fe330b2ca00f77'), 'even': False, 'value': 7},

 {'_id': ObjectId('5dc3671ad7fe330b2ca00f79'), 'even': False, 'value': 9}]

Finding items where the favorite animal is Red Panda

[{'_id': ObjectId('5dc3671ad7fe330b2ca00f6f'), 'favorite animal': 'Red Panda'}]

View the database to see change that was made

[{'_id': ObjectId('5d9e3f711c4000d7596691f3'), 'x': 1},

 {'_id': ObjectId('5d9e3fb81c4000d7596691f4'), 'x': 1},

 {'_id': ObjectId('5d9e48a71c4000d7596691f5'), 'favorite_animal': 'Dog'},

 {'_id': ObjectId('5d9e48a71c4000d7596691f6'),

  'favorite_animal': 'Cat',

  'favorite_color': ' Blue'},

 {'_id': ObjectId('5d9e48a71c4000d7596691f7'), 'favorite_animal': 'Ape'},

 {'_id': ObjectId('5d9e49941c4000d7596691f8'), 'even': True, 'value': 10},

 {'_id': ObjectId('5d9e49941c4000d7596691fa'), 'even': True, 'value': 12},

 {'_id': ObjectId('5d9e49941c4000d7596691fc'), 'even': True, 'value': 19},

 {'_id': ObjectId('5d9e49941c4000d7596691fe'), 'even': True, 'value': 16},

{'_id': ObjectId('5d9e49941c4000d759669200'), 'even': True, 'value': 18},

{'_id': ObjectId('5d9e4b6d1c4000d759669202'),

 'rpg_character': [1, 'King Bob', 10, 3, 0, 0, 0]},

{'_id': ObjectId('5d9e4fe01c4000d759669203'),

 'hp': 10,

 'level': 3,

 'name': 'King Bob',

 'sql_id': 1},

{'_id': ObjectId('5dc36718d7fe330b2ca00f6c'), 'x': 1},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f6d'),

 'favorite animal': ['Kokopo', 'Dog']},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f6e'),

 'favorite animal': 'Snakes',

 'favorite color': 'Cyan'},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f6f'), 'favorite animal': 'Red Panda'},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f70'), 'even': True, 'value': 0},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f71'), 'even': False, 'value': 1},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f72'), 'even': True, 'value': 2},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f73'), 'even': False, 'value': 8},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f74'), 'even': True, 'value': 4},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f75'), 'even': False, 'value': 5},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f76'), 'even': True, 'value': 6},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f77'), 'even': False, 'value': 7},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f78'), 'even': True, 'value': 8},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f79'), 'even': False, 'value': 9}]

View change made to multiple items

[{'_id': ObjectId('5d9e49941c4000d7596691f8'), 'even': True, 'value': 110},

{'_id': ObjectId('5d9e49941c4000d7596691fa'), 'even': True, 'value': 112},

{'_id': ObjectId('5d9e49941c4000d7596691fc'), 'even': True, 'value': 119},

{'_id': ObjectId('5d9e49941c4000d7596691fe'), 'even': True, 'value': 116},

{'_id': ObjectId('5d9e49941c4000d759669200'), 'even': True, 'value': 118},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f70'), 'even': True, 'value': 100},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f72'), 'even': True, 'value': 102},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f74'), 'even': True, 'value': 104},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f76'), 'even': True, 'value': 106},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f78'), 'even': True, 'value': 108}]

View list after removing odd items

[{'_id': ObjectId('5d9e3f711c4000d7596691f3'), 'x': 1},

{'_id': ObjectId('5d9e3fb81c4000d7596691f4'), 'x': 1},

{'_id': ObjectId('5d9e48a71c4000d7596691f5'), 'favorite_animal': 'Dog'},

{'_id': ObjectId('5d9e48a71c4000d7596691f6'),

 'favorite_animal': 'Cat',

 'favorite_color': ' Blue'},

{'_id': ObjectId('5d9e48a71c4000d7596691f7'), 'favorite_animal': 'Ape'},

{'_id': ObjectId('5d9e49941c4000d7596691f8'), 'even': True, 'value': 110},

{'_id': ObjectId('5d9e49941c4000d7596691fa'), 'even': True, 'value': 112},

{'_id': ObjectId('5d9e49941c4000d7596691fc'), 'even': True, 'value': 119},

{'_id': ObjectId('5d9e49941c4000d7596691fe'), 'even': True, 'value': 116},

{'_id': ObjectId('5d9e49941c4000d759669200'), 'even': True, 'value': 118},

{'_id': ObjectId('5d9e4b6d1c4000d759669202'),

 'rpg_character': [1, 'King Bob', 10, 3, 0, 0, 0]},

{'_id': ObjectId('5d9e4fe01c4000d759669203'),

 'hp': 10,

 'level': 3,

 'name': 'King Bob',

 'sql_id': 1},

{'_id': ObjectId('5dc36718d7fe330b2ca00f6c'), 'x': 1},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f6d'),

 'favorite animal': ['Kokopo', 'Dog']},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f6e'),

 'favorite animal': 'Snakes',

 'favorite color': 'Cyan'},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f6f'), 'favorite animal': 'Red Panda'},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f70'), 'even': True, 'value': 100},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f72'), 'even': True, 'value': 102},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f74'), 'even': True, 'value': 104},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f76'), 'even': True, 'value': 106},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f78'), 'even': True, 'value': 108}]

View database after adding an rpg_character

[{'_id': ObjectId('5d9e3f711c4000d7596691f3'), 'x': 1},

{'_id': ObjectId('5d9e3fb81c4000d7596691f4'), 'x': 1},

{'_id': ObjectId('5d9e48a71c4000d7596691f5'), 'favorite_animal': 'Dog'},

{'_id': ObjectId('5d9e48a71c4000d7596691f6'),

 'favorite_animal': 'Cat',

 'favorite_color': ' Blue'},

{'_id': ObjectId('5d9e48a71c4000d7596691f7'), 'favorite_animal': 'Ape'},

{'_id': ObjectId('5d9e49941c4000d7596691f8'), 'even': True, 'value': 110},

{'_id': ObjectId('5d9e49941c4000d7596691fa'), 'even': True, 'value': 112},

{'_id': ObjectId('5d9e49941c4000d7596691fc'), 'even': True, 'value': 119},

{'_id': ObjectId('5d9e49941c4000d7596691fe'), 'even': True, 'value': 116},

{'_id': ObjectId('5d9e49941c4000d759669200'), 'even': True, 'value': 118},

{'_id': ObjectId('5d9e4b6d1c4000d759669202'),

 'rpg_character': [1, 'King Bob', 10, 3, 0, 0, 0]},

{'_id': ObjectId('5d9e4fe01c4000d759669203'),

 'hp': 10,

 'level': 3,

 'name': 'King Bob',

 'sql_id': 1},

{'_id': ObjectId('5dc36718d7fe330b2ca00f6c'), 'x': 1},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f6d'),

 'favorite animal': ['Kokopo', 'Dog']},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f6e'),

 'favorite animal': 'Snakes',

 'favorite color': 'Cyan'},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f6f'), 'favorite animal': 'Red Panda'},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f70'), 'even': True, 'value': 100},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f72'), 'even': True, 'value': 102},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f74'), 'even': True, 'value': 104},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f76'), 'even': True, 'value': 106},

{'_id': ObjectId('5dc3671ad7fe330b2ca00f78'), 'even': True, 'value': 108},

{'_id': ObjectId('5dc3671bd7fe330b2ca00f7a'),

 'rpg_character': [1, 'King Bob', 10, 3, 0, 0, 0]}]