

```
1 import pymongo
2
3 client = pymongo.MongoClient("localhost")
4
5 mydb = client['Company']
6
7 com = mydb.cust
8
9 count = com.count_documents({})
10 print("Total entries is : " , count)
11 print("")
12
13 query = {
14 "firstName":"James", "lastName":"Smith", "age":20,
15 "Address":{"street"Address:"777 Brockton
Avenue", "city":"Abington", "state":"MA", "postalCode":2351},
16 "phoneNumber":[{"type":"home", "number":4661632082},
{"type":"fax", "number":2899829351}],
17 "emailAddress":["jamesS@gamil.com", "SJames@gmail.com"]
18 }
19
20 com.insert_one(query)
21
22 com.insert_many([
23 {"firstName":"Michael", "lastName":"Smith", "age":21,
24 "Address":{"street"Address:"279 Troy Road", "city":"East
Greenbush", "state":"NY", "postalCode":12061},
25 "phoneNumber":[{"type":"home", "number":9808191199},
{"type":"fax", "number":7797374941}],
26 "emailAddress":["MichS@gamil.com", "SMich@gmail.com"]}],
27 {"firstName":"Robert", "lastName":"Smith", "age":22,
28 "Address":{"street"Address:"1400 Farmington
Ave", "city":"Bristol", "state":"CT", "postalCode":6010},
29 "phoneNumber":[{"type":"home", "number":1761266808},
{"type":"fax", "number":9841911399}],
30 "emailAddress":["Robert@gamil.com", "SRob@gmail.com"]}],
31 {"firstName":"Maria", "lastName":"Garcia", "age":22,
32 "Address":{"street"Address:"515 Sawmill Road", "city":"West
Haven", "state":"CT", "postalCode":6516},
33 "phoneNumber":[{"type":"home", "number":8215484894},
{"type":"fax", "number":6754261777}],
34 "emailAddress":["MariaG@gamil.com", "GMaria@gmail.com"]}],
35 {"firstName":"David", "lastName":"Smith", "age":21,
36 "Address":{"street"Address:"30 Memorial
Drive", "city":"Avon", "state":"MA", "postalCode":2322},
37 "phoneNumber":[{"type":"home", "number":1508518145},
{"type":"fax", "number":6778131732}],
38 "emailAddress":["David@gamil.com", "SDavid@gmail.com"]}],
39 {"firstName":"Maria", "lastName":"Rodriguez", "age":20,
40 "Address":{"street"Address:"100 Thruway
Plaza", "city":"Cheektowaga", "state":"NY", "postalCode":14225},
41 "phoneNumber":[{"type":"home", "number":2870577148},
{"type":"fax", "number":1700918899}],
42 "emailAddress":["MariaR@gamil.com", "RMaria@gmail.com"]}],
43 {"firstName":"Mary", "lastName":"Smith", "age":22,
44 "Address":{"street"Address:"180 River
Rd", "city":"Lisbon", "state":"CT", "postalCode":6351},
45 "phoneNumber":[{"type":"home", "number":9806068527},
{"type":"fax", "number":3219935317}],
46 "emailAddress":["Mary@gamil.com", "SMary@gmail.com"]}],
```

```
47 {"firstName":"Maria","lastName":"Hernandez","age":21,
48 "Address":{"street""Address":"540 West
Bypass","city":"Andalusia","state":"AL","postalCode":36420},
49 "phonenumber":[{"type":"home","number":7655200366},
{"type":"fax","number":4381572451}],
50 "emailAddress":["MariaH@gamil.com","HMaria@gmail.com"]}},
51 {"firstName":"Lilly","lastName":"Martinez","age":22,
52 "Address":{"street""Address":"591 Memorial
Dr","city":"Chicopee","state":"MA","postalCode":1020},
53 "phonenumber":[{"type":"home","number":1723748378},{type":"fax","number":3294228998
}],
54 "emailAddress":["Lilly@gamil.com","MLilly@gmail.com"]}},
55 {"firstName":"James","lastName":"Johnson","age":20,
56 "Address":{"street""Address":"30
Catskill","city":"Catskill","state":"NY","postalCode":12414},
57 "phonenumber":[{"type":"home","number":8602583403},
{"type":"fax","number":2270838423}],
58 "emailAddress":["JJJames@gamil.com","JohnJames@gmail.com"]}},
59 {"firstName":"Kamilah","lastName":"Earhart","age":32,
60 "Address":{"street""Address":"297 Grant
Avenue","city":"Auburn","state":"NY","postalCode":13021},
61 "phonenumber":[{"type":"home","number":7360386487},
{"type":"fax","number":8330942524}],
62 "emailAddress":["Kamilah@gamil.com","EKamlish@gmail.com","KamilahEar@gmail,com"]}},
63 {"firstName":"Alise","lastName":"Pickrell","age":29,
64 "Address":{"street""Address":"4133 Veterans
Memorial","city":"Batavia","state":"NY","postalCode":14020},
65 "phonenumber":[{"type":"home","number":8564397599},
{"type":"fax","number":5426189495},{type":"Mobile","number":3314579129}],
66 "emailAddress":["AliseP@gamil.com","PALise@gmail.com"]}},
67 {"firstName":"Leticia","lastName":"Wrobel","age":33,
68 "Address":{"street""Address":"337 Russell
St","city":"Hadley","state":"MA","postalCode":1035},
69 "phonenumber":[{"type":"home","number":1659846658},
{"type":"fax","number":3502899930},{type":"Mobile","number":8437087134}],
70 "emailAddress":["Leticia@gamil.com","WLeticia@gmail.com","Wrobell@gmail,com"]}},
71 {"firstName":"Caridad","lastName":"Kendall","age":34,
72 "Address":{"street""Address":"6265
Brockport","city":"Brockport","state":"NY","postalCode":14420},
73 "phonenumber":[{"type":"home","number":8602583403},
{"type":"fax","number":4326828684}],
74 "emailAddress":["Caridad@gamil.com","CaridadK@gmail.com"]}},
75 {"firstName":"Michele","lastName":"Gault","age":36,
76 "Address":{"street""Address":"5399 W Genessee
St","city":"Camillus","state":"NY","postalCode":13031},
77 "phonenumber":[{"type":"home","number":6125582162},
{"type":"fax","number":9359925521},{type":"Mobile","number":3957610776}],
78 "emailAddress":["MichaelG@gamil.com","GMichele@gmail.com","GaultM@gmail,com"]}},
79 {"firstName":"Azalee","lastName":"Racey","age":31,
80 "Address":{"street""Address":"3191 County rd
10","city":"Canandaigua","state":"NY","postalCode":14424},
81 "phonenumber":[{"type":"home","number":8268801323},
{"type":"fax","number":9568588641},{type":"Mobile","number":7806366159}],
82 "emailAddress":["AzaleeR@gamil.com","RAzalee@gmail.com"]}},
83 {"firstName":"Kathlyn","lastName":"Hackenberg","age":31,
84 "Address":{"street""Address":"20 Soojian
Dr","city":"Leicester","state":"MA","postalCode":1524},
85 "phonenumber":[{"type":"home","number":4131667434},
{"type":"fax","number":4051166104}],
86 "emailAddress":["Kathlyn@gamil.com","HKathlyn@gmail.com"]}},
```

```
87 {"firstName":"Edie","lastName":"Burstein","age":38,
88 "Address":{"street""Address":"30
Catskill","city":"Catskill","state":"NY","postalCode":12414},
89 "phonenumber":[{"type":"home","number":2601886547},
{"type":"fax","number":2999933858}],
90 "emailAddress":["Edie@gamil.com","BEdie@gmail.com","BursteinE@gmail,com"]}},
91 {"firstName":"Will","lastName":"Strout","age":36,
92 "Address":{"street""Address":"11 Jungle
Road","city":"Leominster","state":"MA","postalCode":1453},
93 "phonenumber":[{"type":"home","number":9764636612},
{"type":"fax","number":8685337904},{type":"Mobile","number":9809039510}],
94 "emailAddress":["Will@gamil.com","SWill@gmail.com"]}},
95 {"firstName":"Cesar","lastName":"Bannon","age":34,
96 "Address":{"street""Address":"161 Centereach
Mall","city":"Centereach","state":"NY","postalCode":11720},
97 "phonenumber":[{"type":"home","number":8803053048},
{"type":"fax","number":8337163141},{type":"Mobile","number":9735653616}],
98 "emailAddress":["Cesar@gamil.com","BCesar@gmail.com"]}},
99 {"firstName":"Hanna","lastName":"Voliva","age":30,
100 "Address":{"street""Address":"780
Lynnway","city":"Lynn","state":"MA","postalCode":1905},
101 "phonenumber":[{"type":"home","number":4041954879},
{"type":"fax","number":2490539545}],
102 "emailAddress":["Hanna@gamil.com","VHanna@gmail.com","VolivaHanna@gmail,com"]}},
103 {"firstName":"Yuonne","lastName":"Gingerich","age":22,
104 "Address":{"street""Address":"3018 East Ave","city":"Central
Square","state":"NY","postalCode":13036},
105 "phonenumber":[{"type":"home","number":2990731778},
{"type":"fax","number":4631531140},{type":"Mobile","number":8829936546}],
106 "emailAddress":["Yuonne@gamil.com","GYuonne@gmail.com"]}},
107 {"firstName":"Jackie","lastName":"Wolfenbarger","age":22,
108 "Address":{"street""Address":"100 Thruway
Plaza","city":"Cheektowaga","state":"NY","postalCode":14225},
109 "phonenumber":[{"type":"home","number":6822716568},
{"type":"fax","number":7965807774}],
110 "emailAddress":["Jackie@gamil.com","WJackie@gmail.com"]}},
111 ])
112 print("")
113
114 print("number of entries after insertion")
115 count = com.count_documents({})
116 print("Total entries : " , count)
117
118 # increase "age"
119 print("increase age")
120 print(com.find_one({"firstName":"Michael","lastName":"Smith"}))
121 com.update_one({"firstName":"Michael","lastName":"Smith"},{"$inc":{"age":2}})
122 print(com.find_one({"firstName":"Michael","lastName":"Smith"}))
123 print("")
124 #for record in com.find({'S_id': 'S112'}):
125 # print(record)
126
127 # push emailAddress
128 print("push emailaddress")
129 com.update_one({"firstName":"Michael","lastName":"Smith"},{"$push":{"emailAddress":
{"$each":["SmithMich@gmail.com"]}}})
130 print(com.find_one({"firstName":"Michael","lastName":"Smith"}))
131 print("")
132
133 # pop emailAddress
```

```
134 print("pop emailaddress")
135 com.update_one({"firstName":"Michael","lastName":"Smith"}, {"$pop":
{"emailAddress":-1}})
136 print(com.find_one({"firstName":"Michael","lastName":"Smith"}))
137 print("")
138
139 #      updating the "Address"
140 print("updating the Address")
141 com.update_one({"firstName":"Michael","lastName":"Smith"}, {"$set":{"Address":
{"state":"CT","Pincode":4123}}})
142 print(com.find_one({"firstName":"Michael","lastName":"Smith"}))
143 print("")
144
145 #      updating multiple for age
146 print("updating multiple for age")
147 for record in com.find({"lastName":"Smith"}):
148     print(record)
149 com.update_many({"lastName":"Smith"}, {"$set":{"age":"28"}})
150 print("")
151 for record in com.find({"lastName":"Smith"}):
152     print(record)
153 print("")
154
155
156 #      greater then
157 print("greater then")
158 for record in com.find({"age":{"$gt":28}}):
159     print(record)
160 print("")
161
162 #      Sorting in decending order
163 print("Sorting in decending order")
164 doc = com.find().sort("firstName",-1)
165 for x in doc:
166     print(x)
167 print("")
168
169 #      Sorting in accending
170 doc = com.find().sort("S_name",1)
171 for x in doc:
172     print(x)
173 print("")
174
175
176 #      Name starting with M
177 print("Name starting with M")
178 for x in com.find({"firstName":{"$regex":"^M"}}):
179     print(x)
180 print("")
181
182
183 #      delete multiple entries
184 print("delete multiple entries having lastName Smith")
185 count = com.count_documents({})
186 print("Total entries : " , count)
187 print("")
188 com.delete_many({"lastName":"Smith"})
189 count = com.count_documents({})
190 print("Total entries : " , count)
191 print("")
```

```
192 |
193 | #      Drouping Colleccion
194 | #com.drop()
195 |
196 |
```