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import pymongo
client=pymongo.MongoClient(
"mongodb://localhost:27017"
import pymongo
from pymongo import MongoClient
connection = MongoClient()
db = connection.student
connection.list database names()
['MARCOS', 'admin', 'config', 'local', 'student']
stu=db['stude']
for i in stu.find({},{" id":0,"LastName":0}):
    print(i)
{'RollNum': 43, 'FirstName': 'John', 'Age': 20, 'Department':
'Computer Science', 'Mark': 78}
{'RollNum': 67, 'FirstName': 'Alice', 'Age': 22, 'Department':
          'Mark': 59}
'Physics',
{'RollNum': 23, 'FirstName': 'Bob', 'Age': 21, 'Department': 'Computer
Science', 'Mark': 81}
{'RollNum': 18, 'FirstName': 'Eve', 'Age': 19, 'Department':
'Mathematics', 'Mark': 56} {'RollNum': 84, 'FirstName': 'Mike', 'Age': 23, 'Department':
'Physics', 'Mark': 92}
filter = { 'RollNum': 67 }
# Values to be updated.
newvalues = { "$set": { 'Age': 26 } }
# Using update one() method for single
# updation.
stu.update one(filter, newvalues)
for i in stu.find({}):
    print(i)
{' id': ObjectId('654b27ee4242c2520f0f878f'), 'RollNum': 43,
'FirstName': 'John', 'LastName': 'Doe', 'Age': 20, 'Department': 'Computer Science', 'Mark': 78}
{' id': ObjectId('654b27ee4242c2520f0f8790'), 'RollNum': 67,
'FirstName': 'Alice', 'LastName': 'Smith', 'Age': 26, 'Department':
'Physics', 'Mark': 59}
{' id': ObjectId('654b27ee4242c2520f0f8791'), 'RollNum': 23,
'FirstName': 'Bob', 'LastName': 'Johnson', 'Age': 21, 'Department':
'Computer Science', 'Mark': 81}
{' id': ObjectId('654b27ee4242c2520f0f8792'), 'RollNum': 18,
'FirstName': 'Eve', 'LastName': 'Adams', 'Age': 19, 'Department':
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'Mathematics', 'Mark': 56}
{' id': ObjectId('654b27ee4242c2520f0f8793'), 'RollNum': 84,
'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 23, 'Department':
'Physics', 'Mark': 92}
filter = {}
# Values to be updated.
newvalues = { "$inc": { 'Age': 1 } }
# Using update one() method for single
# updation.
stu.update_many(filter, newvalues)
for i in stu.find({}):
    print(i)
{' id': ObjectId('654b27ee4242c2520f0f878f'), 'RollNum': 43,
'FirstName': 'John', 'LastName': 'Doe', 'Age': 21, 'Department':
'Computer Science', 'Mark': 78}
{'_id': ObjectId('654b27ee4242c2520f0f8790'), 'RollNum': 67,
'FirstName': 'Alice', 'LastName': 'Smith', 'Age': 27, 'Department':
'Physics', 'Mark': 59}
{' id': ObjectId('654b27ee4242c2520f0f8791'), 'RollNum': 23,
'FirstName': 'Bob', 'LastName': 'Johnson', 'Age': 22, 'Department':
'Computer Science', 'Mark': 81}
{' id': ObjectId('654b27ee4242c2520f0f8792'), 'RollNum': 18,
'FirstName': 'Eve', 'LastName': 'Adams', 'Age': 20, 'Department':
'Mathematics', 'Mark': 56}
{' id': ObjectId('654b27ee4242c2520f0f8793'), 'RollNum': 84,
'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 24, 'Department':
'Physics', 'Mark': 92}
filter = {"Department":"Computer Science"}
# Values to be updated.
newvalues = { "$inc": { 'Mark': 5 } }
# Using update one() method for single
# updation.
stu.update many(filter, newvalues)
for i in stu.find({}):
    print(i)
{' id': ObjectId('654b27ee4242c2520f0f878f'), 'RollNum': 43,
'FirstName': 'John', 'LastName': 'Doe', 'Age': 21, 'Department':
'Computer Science', 'Mark': 83}
{' id': ObjectId('654b27ee4242c2520f0f8790'), 'RollNum': 67,
'FirstName': 'Alice', 'LastName': 'Smith', 'Age': 27, 'Department':
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'Physics', 'Mark': 59}
{' id': ObjectId('654b27ee4242c2520f0f8791'), 'RollNum': 23,
'FirstName': 'Bob', 'LastName': 'Johnson', 'Age': 22, 'Department':
'Computer Science', 'Mark': 86}
{' id': ObjectId('654b27ee4242c2520f0f8792'), 'RollNum': 18,
'FirstName': 'Eve', 'LastName': 'Adams', 'Age': 20, 'Department': 'Mathematics', 'Mark': 56}
{' id': ObjectId('654b27ee4242c2520f0f8793'), 'RollNum': 84,
'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 24, 'Department':
'Physics', 'Mark': 92}
filter = {"Department":"Mathematics"}
# Values to be updated.
newvalues = { "$inc": { 'Mark': -10 } }
# Using update one() method for single
# updation.
stu.update many(filter, newvalues)
for i in stu.find({}):
    print(i)
{' id': ObjectId('654b27ee4242c2520f0f878f'), 'RollNum': 43,
'FirstName': 'John', 'LastName': 'Doe', 'Age': 21, 'Department':
'Computer Science', 'Mark': 83}
{' id': ObjectId('654b27ee4242c2520f0f8790'), 'RollNum': 67,
'FirstName': 'Alice', 'LastName': 'Smith', 'Age': 27, 'Department':
'Physics', 'Mark': 59}
{' id': ObjectId('654b27ee4242c2520f0f8791'), 'RollNum': 23,
'FirstName': 'Bob', 'LastName': 'Johnson', 'Age': 22, 'Department':
'Computer Science', 'Mark': 86}
{' id': ObjectId('654b27ee4242c2520f0f8792'), 'RollNum': 18,
'FirstName': 'Eve', 'LastName': 'Adams', 'Age': 20, 'Department':
'Mathematics', 'Mark': 46}
{' id': ObjectId('654b27ee4242c2520f0f8793'), 'RollNum': 84,
'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 24, 'Department':
'Physics', 'Mark': 92}
filter = {"Department":"Physics"}
# Values to be updated.
newvalues = { "$set": { 'Department': "Physical Science" } }
# Using update one() method for single
# updation.
stu.update many(filter, newvalues)
for i in stu.find({}):
    print(i)
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{' id': ObjectId('654b27ee4242c2520f0f878f'), 'RollNum': 43,
'FirstName': 'John', 'LastName': 'Doe', 'Age': 21, 'Department':
'Computer Science', 'Mark': 83}
{'_id': ObjectId('654b27ee4242c2520f0f8790'), 'RollNum': 67,
'FirstName': 'Alice', 'LastName': 'Smith', 'Age': 27, 'Department':
'Physical Science', 'Mark': 59}
{' id': ObjectId('654b27ee4242c2520f0f8791'), 'RollNum': 23,
'FirstName': 'Bob', 'LastName': 'Johnson', 'Age': 22, 'Department':
'Computer Science', 'Mark': 86}
{' id': ObjectId('654b27ee4242c2520f0f8792'), 'RollNum': 18,
'FirstName': 'Eve', 'LastName': 'Adams', 'Age': 20, 'Department':
'Mathematics', 'Mark': 46}
{' id': ObjectId('654b27ee4242c2520f0f8793'), 'RollNum': 84,
'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 24, 'Department':
'Physical Science', 'Mark': 92}
pipeline=[{"$group": {' id':'null','avgage': {'$avg':"$Age"} } }]
avg age=list(stu.aggregate(pipeline))
print(avg age)
[{'_id': 'null', 'avgage': 22.8}]
pipeline=[{"$match":{'Department':'Physical Science'}},{"$group":
{' id':'null','avgmark': {'$avg':"$Mark"} } }]
avg mark=list(stu.aggregate(pipeline))
print(avg mark)
[{' id': 'null', 'avgmark': 75.5}]
stu.delete many({'Department':'Mathematics'})
for i in stu.find({}):
    print(i)
{' id': ObjectId('654b27ee4242c2520f0f878f'), 'RollNum': 43,
'FirstName': 'John', 'LastName': 'Doe', 'Age': 21, 'Department': 'Computer Science', 'Mark': 83}
{'_id': ObjectId('654b27ee4242c2520f0f8790'), 'RollNum': 67,
'FirstName': 'Alice', 'LastName': 'Smith', 'Age': 27, 'Department':
'Physical Science', 'Mark': 59}
{'_id': ObjectId('654b27ee4242c2520f0f8791'), 'RollNum': 23,
'FirstName': 'Bob', 'LastName': 'Johnson', 'Age': 22, 'Department':
'Computer Science', 'Mark': 86}
{' id': ObjectId('654b27ee4242c2520f0f8793'), 'RollNum': 84,
'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 24, 'Department':
'Physical Science', 'Mark': 92}
stu.delete many({'Mark':{'$lt':60}})
for i in stu.find({}):
    print(i)
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{'_id': ObjectId('654b27ee4242c2520f0f878f'), 'RollNum': 43,
'FirstName': 'John', 'LastName': 'Doe', 'Age': 21, 'Department':
'Computer Science', 'Mark': 83}
{'_id': ObjectId('654b27ee4242c2520f0f8791'), 'RollNum': 23,
'FirstName': 'Bob', 'LastName': 'Johnson', 'Age': 22, 'Department':
'Computer Science', 'Mark': 86}
{'_id': ObjectId('654b27ee4242c2520f0f8793'), 'RollNum': 84,
'FirstName': 'Mike', 'LastName': 'Brown', 'Age': 24, 'Department':
'Physical Science', 'Mark': 92}
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