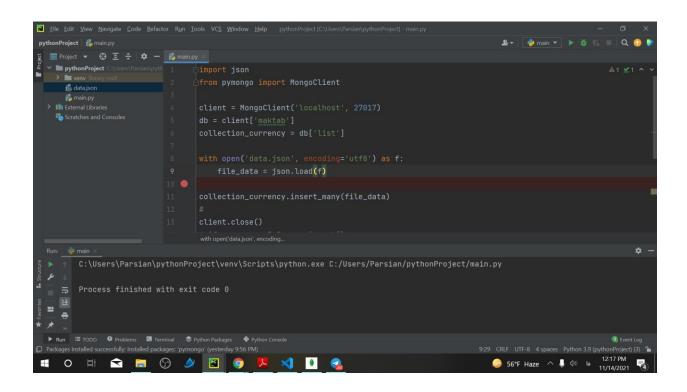
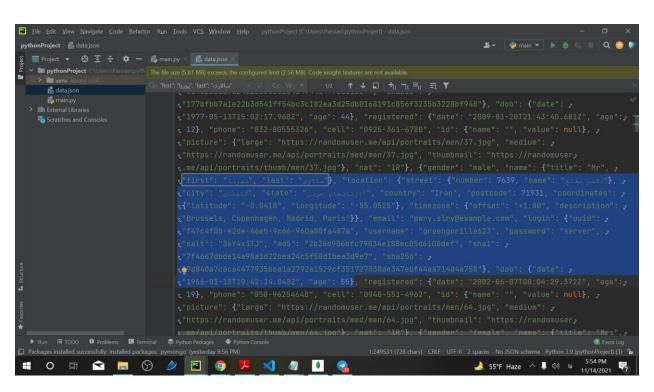
queries:





```
show dbs

admin 0.000GB

config 0.000GB

local 0.000GB

maktab 0.003GB

maktab_61 0.000GB

<use maktab

switched to db maktab

<db.list.find().pretty()
```

.1

```
***db.list.aggregate]){$unwind:"$dob"},{$match : {"dob.age" : {$gt:50} }},{$unwind:"$location"}$},match : "}location.city,{ {"گُلستان" : "{$unwind : "$name"},{$project: {_id:0, "name.first" : 1 , "name.last" : 1 }}([
```

```
*db.list.aggregate([{$unwind: "$name"},{$project: {_id:0, "name.last": 1,"location": 1, "phone":1
}},{$unwind : "$registered"},{$match : {"registered.age" : {$gt:20} }}]).pretty()
*db.list.aggregate([{$unwind: "$name"},{$project: {_id:0, "name.last": 1,"location": 1, "phone":1
}},{$unwind : "$registered"},{$project : {"registered.age" : 1 }}]).pretty()
.2
***db.list.aggregate([{$unwind:"$registered"},{$match: {"registered.age": {$gt:20}}},{$unwind:
"$name"},{$project: {_id:0, "name.last" : 1, "location" : 1 ,"phone":1}}]).pretty()
.3
db.list.aggregate([{$match: {$expr: {$and: [{$eq: [{$dayOfMonth: {date: {$dateFromString: {dateString:
'$dob.date'}}} }, {$dayOfMonth: new Date ()}] },{ $eq: [{ $month: {date: {$dateFromString: {dateString:
'$dob.date'}}} }, { $month: new Date ()}] }]}}}, {$project:{_id:0,name:1, email:1, dob:1}}]).pretty()
***db.list.aggregate([{$match: {$expr: {$and: [{$eq: [{$dayOfMonth: {date: {$dateFromString: {dateString:
'$dob.date'}}} }, {$dayOfMonth: new Date ()}] },{ $eq: [{ $month: {date: {$dateFromString: {dateString:
'$dob.date'}}} }, { $month: new Date ()}] }}}}, $\unwind:"$name"}, {$unwind:"$dob"},
{$project:{_id:0,"name.first":1,"name.last":1, email:1, "dob.date":1}}]).pretty()
.4db.list.aggregate([{$group:{_id:"$location.state",total_residence:{$sum:1}}}])
.5db.list.aggregate([{$group:{ id :"$location.city",total residence:{$sum:1}}},{$sort:{total residence:-1}}])
db.list.aggregate([ { $unwind: "$location" }, { $group: { _id: "$location.city", "Total": { $sum: 1 } } }, { $group: {
_id:"", minimum: { $min: '$Total' }, maximum: { $max: '$Total' }} },{$project :{_id :
0,"location.city":1,maximum:1,minimum:1}} ])
```

```
second way:
db.list.aggregate([{$facet:{"maximum":[{$group: {"_id": "$location.city", "count": {"$sum": 1}}},
{"$sort":{"count" : -1}} ,{"$limit" : 1}], "minimum": [{"$group": {"_id": "$location.city", "count": {"$sum":
1}}},{"$sort": {"count": 1}}, {"$limit": 1}],}}])
answer:
{ "maximum" : [ { "_id" : "بيرجند" , "count" : 118 } ], "minimum" : [ { "_id" : "سنندج ", "count" : 72 } ] }
 .6db.list.aggregate([{$unwind:"$location"},{$unwind:"$dob"},{$group:{_id
:"$location.city",avg_age:{$avg:"$dob.age"}}}])
compare tehran with other cities:
db.list.aggregate([{$unwind:"$location"},{$unwind:"$dob"},{$group:{_id
:"$location.city",avg_age:{$avg:"$dob.age"}}},{$project:{comp: { $cmp: [ "$avg_age", 46.36842105263158 ]
}}}]
.7
db.list.aggregate([{$unwind:"$dob"},{$match: {"dob.age": {$lt:16}}},{$unwind: "$name"},{$project: {_id:0,
"name.first": 1, "name.last": 1}}]).pretty()
db.list.aggregate([{$unwind:"$dob"},{$project :{result: { $and: [ { $gt: [ "$dob.age", 16 ] }, { $lt: [ "$dob.age",
40 ] } ] }}])
```

```
db.list.aggregate([{$unwind:"$dob"},{$project:{_id:0,"name.first":1,"name.last":1,result: { $and: [ { $gt: [
"$dob.age", 16 ] }, { $lt: [ "$dob.age", 40 ] } ] }}}])
final answer:
***db.list.aggregate([{$unwind:"$dob"},{$project: {_id:0,"name.first":1,"name.last":1,"youth":{$lt:["$dob.age"
, 16]},"middle_aged":{$and:[{$gt:["$dob.age",16]},{$lt:["$dob.age",40]}]},"old":{$gt:["$dob.age",40]} }}])
< .8db.newCollection.count()
5000
captures:
.1
}
        id": ObjectId("619007f2ebd3ff77c47d0b6b"),
       gender": "female,"
       name}: "
             title": "Mrs,"
             ": "آوينا", first
             ": "کامیاران": "
,{
"
       location}: "
             street}: "
                    number": 8521,
                    ": "اقبال لاهوري" : "
,{
```

```
city,": "نجف آباد": "
            ": "سيستان و بلوچستان": "
            country": "Iran,"
            postcode": 99412,
            coordinates): "
                  latitude": "4.6035,"
                  longitude": "175.7687"
,{
            timezone}: "
                  offset": "+5:45,"
                  description": "Kathmandu"
{
,{
      email": "awyn.kmyrn@example.com,"
      login}: "
            uuid": "186cd1c7-f510-45da-b1d1-69fdba34843f,"
            username": "beautifulgorilla606,"
            password": "skolko,"
            salt": "what2PBg,"
            md5": "f55f1d4e5af361ada127167588c49aee,"
            sha1": "777fd2f3d9deabb8096612d497ca8d62f3cf7df2,"
            sha256": "335d3cc6eab82ca1a94c1a60a718c88955cba34c486c6e2176253b0b96a3012a"
,{
      dob}: "
            date": "1997-08-26T06:18:39.889Z,"
            age": 24
,{
      registered}: "
```

```
date": "2016-10-04T06:37:18.004Z,"
             age": 5
,{
"
       phone": "062-25229103,"
       cell": "0906-504-1696,"
       id}: "
             name,"": "
             value": null
,{
"
       picture): "
             large": "https://randomuser.me/api/portraits/women/70.jpg,"
             medium": "https://randomuser.me/api/portraits/med/women/70.jpg,"
             thumbnail": "https://randomuser.me/api/portraits/thumb/women/70.jpg"
,{
       nat": "IR"
{
 .2no people registered for more than 20 years
.3
db.list.aggregate([{$match: {$expr: {$and: [{$eq: [{$dayOfMonth: {date: {$dateFromString: {dateString: }}
'$dob.date'}}} }, {$dayOfMonth: new Date ()}] },{ $eq: [{ $month: {date: {$dateFromString: {dateString:
'$dob.date'}}} }, { $month: new Date ()}] }]}}}, {$project:{_id:0,"name.first":1,"name.last":1, email:1,
"dob.date":1}}]).pretty()
}
       name}: "
             first,"عسل" : "
```

```
"
            | : "محمدخان" : "
,{
      email": "aasl.mhmdkhn@example.com,"
      dob}: "
            date": "1945-11-16T07:50:04.384Z"
{
}
      name}: "
            first,"رها" : "
            " : "نكو نظر "last
,{
      email": "rh.nkwnzr@example.com,"
      dob}: "
            date": "1982-11-16T13:59:17.946Z"
{
{
}
      name}: "
            first,"تينا : "
            " : "رضایی": "
,{
      email": "tyn.rdyy@example.com,"
      dob}: "
            date": "1963-11-16T10:39:11.526Z"
{
{
}
```

```
name}: "
            first,"ر هام" : "
            " : "رضايي": "
,{
"
      email" : "rhm.rdyy@example.com,"
      dob}: "
            date": "1976-11-16T13:51:46.948Z"
{
{
}
      name}: "
            ": "سوگند", first
            " : "ياسمى" : "
,{
      email" : "swgnd.ysmy@example.com,"
      dob}: "
            date": "1948-11-16T02:57:21.820Z"
{
{
}
      name}: "
            first,"رها" : "
            " : "قاسمى": "
,{
      email": "rh.qsmy@example.com,"
      dob}: "
            date": "1978-11-16T01:58:04.652Z"
{
```

```
{
}
      name}: "
            first,"كيان : "
            " : "سهيلي راد"last
,{
      email": "kyn.shylyrd@example.com,"
      dob}: "
            date": "1958-11-16T09:20:15.305Z"
{
{
}
      name}: "
            ": "سورنا",first
            ": "محمدخان": "
,{
      email": "swrn.mhmdkhn@example.com,"
      dob}: "
            date": "1948-11-16T20:14:48.276Z"
{
{
}
      name}: "
            first,"پرنیا" : "
            " : "ياسمى" : "
,{
      email": "prny.ysmy@example.com,"
      dob}: "
```

```
date": "1994-11-16T20:21:40.343Z"
{
{
      name}: "
            first,"درسا" : "
            " : "سهيلي راد"last
,{
      email": "drs.shylyrd@example.com,"
      dob}: "
            date": "1987-11-16T22:58:37.921Z"
{
      name}: "
            ": "سورنا",first
            " : "کریمی"ast"
,{
      email": "swrn.khrymy@example.com,"
      dob}: "
            date": "1970-11-16T22:04:57.866Z"
{
{
}
      name}: "
            first,"عسل" : "
            " : "احمدى" :
,{
```

```
email": "aasl.hmdy@example.com,"
      dob}: "
            date": "1979-11-16T01:29:43.491Z"
{
{
}
      name}: "
           first,"امحيا : "
           " : "نكو نظر "last
,{
      email": "mhy.nkwnzr@example.com,"
      dob}: "
            date": "1961-11-16T21:03:11.849Z"
{
{
}
      name}: "
            ": "امير على": "
            " : "ياسمى" : "
,{
      email" : "myraaly.ysmy@example.com,"
      dob}: "
            date": "1977-11-16T14:49:42.260Z"
{
}
      name}: "
            first,"عسل : "
```

```
" : "نجاتى" : "
,{
       email": "aasl.njty@example.com,"
       dob}: "
              date": "1949-11-16T02:41:53.771Z"
{
{
.4
}total_residence" : "چهار محال و بختياري", "Jid" "
total_residence" : 157{ " : "خراسان جنوبي", "]}id" : "خراسان جنوبي",
" }id" , "کردستان" : "total_residence" : 175{
" }id" ,"گيلان" : "total_residence" : 137{
_" }id" , "مازندران" : "total_residence" : 164{
]total_residence" : 160 : "أذربايجان شرقى", "lotal_residence" : 160 : "
_" }id" ,"اصفهان" : "total_residence" : 156{
]total_residence" : 163 : " هرمزگان", "Jid"
" }id" ,"يزد" : "total_residence" : 171{
" }id" , "گلستان" : "total_residence" : 168{
_" }id" , "همدان" : "total_residence" : 183{
_" }id" , "كرمانشاه" : "total_residence" : 174{
"__ }id" , "سيستان و بلوچستان", "total_residence" : 154{
" }id" ,"ايلام" : "total_residence" : 150{
" }id" ,"اردبيل" : "total_residence" : 153{
" }id" , "لرستان", "total_residence" : 157
_" }id" , "تهران" : "total_residence" : 166{
```

```
]total_residence" : 172 : "id" . "فارس", "}id"
!total residence" : 137 : "خراسان شمالي", "ld" :
*total_residence" : "كهگيلويه و بويراحمد", "id" "
Type "it" for more
 <it
}id" : "total_residence" : 160{ "
" }id" , "قم" : "total_residence" : 173{
_" }id" ,"سمنان" : "total_residence" : 179{
]total_residence" : 141 : "خراسان رضوى", "Jid" :
_" }id" , "زنجان" : "total_residence" : 175{
_" }id" , "البرز" : "total_residence" : 172{
] total_residence" : 160: "id" : "قزوين", "lotal_residence": 160: "
] total_residence" : 130 : "بوشهر", "}id" : "بوشهر
" }id" ,"كرمان": "total_residence" : 161{
] total_residence" : 173{ " مرکزی", "}id" : "مرکزی", "
_" }id" , "خوزستان", "total_residence" : 164{
 : سنندجmin: بيرجند, 5max.
_" }id" ,"بيرجند" : "total_residence" : 118{
] id" ,"خوی" : "total_residence" : 115:
_" }id" ,"کرمانشاه", "total_residence" : 115{
" }id" ,"ايلام" : "total_residence" : 114{
" }id" , "گلستان" : "total_residence" : 113{
]total_residence" : 113 : "قزوين", "}id" : "قزوين", "
```

_" }id" ; "ورامين", "total_residence" : 112{

```
]total_residence" : 111 " : "total_residence" : 111
}id" : "تبريز", "lotal_residence" : 110{
 _" }id" ,"بندر عباس" : "total_residence" : 108{
 _" }id" ,"كاشان" : "total_residence" : 108{
galanda : "total_residence" : 108{ "_" }id" . "قم" : "total_residence" : 108
]total_residence" : 107 : "# did" : "شيراز", "id" "
]total_residence" : "خرمآباد", "jid" : "خرمآباد"
] total_residence" : 106{ " : "يزد", "}id" : "total_residence
 ] total_residence" : 106{ "آمل", "jid" : "total_residence"
 ]total_residence" : "بجنورد", "Jid" : "بجنورد", "Jid" "_
_" }id" ,"ملارد" : "total_residence" : 105{
" }id" ,"بابك" : "total_residence" : 105{
" }id" ,"نجفآباد" : "total_residence" : 103{
_" }id" , "زاهدان" : "total_residence" : 102{
 ]total_residence" : "اهواز", "Jid" : "اهواز", "Jid"
_" }id" ,"قدس" : "total_residence" : 101{
] total_residence" : 101{ " - " امشهد", " }id" : "total_residence
_" }id" , "قائمشهر ": "total_residence" : 101{
]total_residence" : 100 : "شهريار", "}id" : "شهريار",
 ] total_residence" : 100{ " . "total_residence" : 100{
 _" }id" , "کرمان": "total_residence" : 100{
" }id" , "همدان" : "total_residence" : 99{
" }id" ,"کرج" : "total_residence" : 99{
]total_residence" : 98 : "نيشابور", "}id" : "نيشابور",
] total_residence" : 98{ " : "by '"; "ld" : "98
 ] total_residence" : 97{ " : "total_residence" : 97
 _" }id" ,"اراك" : "total_residence" : 96{
```

```
}id" : "total_residence" : 96{ "
] total_residence" : 95{ " : "total_residence" : 95
 ]183 : "total_residence" : "قرچک", "}id" : "قرچک"
 _" }id" ,"اصىفهان" : "total_residence" : 93{
_" }id" ,"اردبيل" : "total_residence" : 93{
" }id" ,"آبادان" : "total_residence" : 93{
_" }id" ,"اسلامشهر" : "total_residence" : 93{
 ]total_residence" : 92 : "{ سُت", "}id" : "total_residence"
 ]19 : "total_residence" : "سارى", "}id |
_" }id" ,"پاکدشت" : "total_residence" : 87{
_" }id" , "سبزوار" : "total_residence" : 86{
] total_residence" : 86{ : "لارگان", "jid" : "total_residence"
_" }id" ; "اروميه", "total_residence" : 83{
 ]total_residence" : 82{ " " اساوه", "}id" : "total_residence
 ]total_residence" : 81{ "_خمينىشهر ", "}id" : "خمينىشهر ", "
" }id" ,"سنندج ": "total_residence" : 72{
.6
}id" ,"سبزوار" : "avg_age" : 48.02325581395349 "
 ]" }id" ,"قدس" : "avg_age" : 51.722772277227
 _" }id" ,"مشهد" : "avg_age" : 49.53465346534654{
__" }id" ,"قرچک": "avg_age" : 47.096774193548384{
]avg_age" : 51.11340206185567 : "بروجرد", "}id" :
] avg_age" : 50.35294117647059" : "c | avg_age" : 50.35294117647059
]avg_age" : 51.97029702970297{ " "قائمشهر", "}id" : "avg_age"
 " }id" ,"ملارد" : "avg_age" : 49.87619047619047{
 _" }id" ,"اراك" : "avg_age" : 51.458333333333333
```

```
__" }id" ,"شهريار" : "avg_age" : 51.09{
]avg_age" : 50.6 : "avg_age" : "نبريز", "di
 _" }id" , "ورامين" : "avg_age" : 50.098214285714285{
]avg_age" : 50.06956521739131 : "خوى", "jid" _
__" }id" , "بندر عباس" : "avg_age" : 50.888888888888888888888
]avg_age" : 50.275510204081634 : "avg_age" : 50.275510204081634
" }id" , "اصفهان" : "avg_age" : 50.12903225806452{
__" }id" ,"شيراز": "avg_age" : 50.5607476635514{
]avg_age" : 51.559322033898304 : "بيرجند", "id" "
_" }id" ,"كاشان" : "avg_age" : 51.0462962962963{
_" }id" , "سيرجان" : "avg_age" : 48.88775510204081{
] avg_age" : 51.0188679245283 " يزد", "}id" "يزد"
__" }id" ,"ساوه" : "avg_age" : 50.09756097560975{
]avg_age" : 50.38260869565217 : "كرمانشاه", "id" :
_" }id" ,"گلستان" : "avg_age" : 50.769911504424776{
__" }id" ,"دزفول": "avg_age" : 49.64{
_" }id" , "ايلام" : "avg_age" : 50.24561403508772{
" }id" , "نجف آباد" : "avg_age" : 48.90291262135922{
" }id" ,"سنندج": "avg_age" : 51.9444444444444444{
_" }id" ,"رشت" : "avg_age" : 50.70652173913044{
_" }id" , "همدان": "avg_age" : 50.0606060606060606
__" }id" ,"تهران" : "avg_age" : 46.36842105263158******{
_" }id" ; "اروميه" : "avg_age" : 53.40963855421687{
_" }id" ,"گرگان": "avg_age" : 47.7093023255814{
]avg_age" : 50.4725274725274744 : "سارى", "}id" .
 _" }id" ,"آبادان" : "avg_age" : 47.11827956989247{
```

```
__" }id" ,"خرمآباد": "avg_age" : 48.757009345794394{
]30 : "avg_age" : "خمينىشهر", "lid" "
_" }id" , "قم" : "avg_age" : 46.23148148148148{
__" }id" ,"كرج" : "avg_age" : 50.86868686868687{
]avg_age" : 49{ : "avg_age" : 49 "
__" }id" ,"اسلامشهر" : "avg_age" : 52.956989247311824{
_" }id" ,"زنجان": "avg_age" : 49.77477477477478{
]avg_age" : 49.68867924528302 " آمل", "}id" : "avg_age"
_" }id" ,"بابك" : "avg_age" : 49.523809523809526{
_" }id" ,"قزوين" : "avg_age" : 52.008849557522126{
_" }id" ,"پاکدشت" : "avg_age" : 48.98850574712644{
_" }id" ,"بوشهر": "avg_age" : 53.260416666666664{
_" }id" ,"بجنورد", "avg_age" : 50.54716981132076{
] avg_age" : 49.66 : "avg_age" : 49.66 "
6. مقايسه
]1 : "comp" : 1 "سبزوار", "jid" :
_" }id" ,"قدس": "comp" : 1{
_" }id" ; "مشهد", "comp" : 1{
_1 : "comp" : 1 "قرچک", "jid" "__
]: "comp" : 1 "بروجرد", "jid" : "comp" : 1
_" }id" , "زاهدان" : "comp" : 1{
]1 : "comp" : 1{ "فائمشهر", "jid" |
_" }id" ; "ملارد"; "comp" : 1{
_" }id" ; "lcomp" : 1{
]1 : "comp" : "شهريار", "jid" : "
```

```
_" }id" ; "تبريز" ; "comp" : 1{
]: "comp" : 1 "ورامين", "jid" "
]1 : "comp" : "خوى", "jid" : "خوى",
_" }id" ,"بندر عباس" : "comp" : 1{
]1 : "comp" : 1 "نيشابور", "jid" : "comp
_" }id" ,"اصفهان" : "comp" : 1{
_" }id" , "شيراز", "comp" : 1{
_" }id" ; "بيرجند", "comp" : 1{
_" }id" ,"كاشان" : "comp" : 1{
]1 : "comp" : "سيرجان", "jid" "
Type "it" for more
<it
_" }id" : "يزد", "comp" : 1{
]: "comp" : 1 "ساوه", "sid" : "comp"
_" }id" , "كرمانشاه" : "comp" : 1
_" }id" , "گلستان" : "comp" : 1{
]1 : "comp" : 1دزفول", "jid" : "comp"
_" }id" , "ايلام" : "comp" : 1{
_" }id" ,"نجفآباد" : "comp" : 1{
_" }id" ,"ار دبيل" : "comp" : 1{
_" }id" ,"سنندج "comp" : 1{
_" }id" : "comp" : 1 (شت", "jid" "__
_" }id" , "همدان" : "comp" : 1{
_" }id" , "تهران" : "comp" : 0{
]1 : "comp" : "ارومیه", "id" : "
_" }id" ; "گرگان"; "comp" : 1{
_" }id" : "سارى": "comp" : 1
_" }id" ; "آبادان" ; "comp" : 1
```

```
}id" : "comp" : 1 "خرم آباد",
]1 : "comp" : 1{ "خمينىشهر", "jid" :
_" }id" ; "قم", "id" : "comp" : -1{
]1 : "comp" : "كرج", "jid" :
Type "it" for more
 <it
_" }id" , "اهواز", "comp" : 1{
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]1 : "comp" : "زنجان", "jid" .
_" }id" ,"بابل" : "comp" : 1{
_" }id" ; "قزوين", "comp" : 1{
_" }id" ,"پاکدشت" : "comp" : 1{
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]comp" : 1: "comp" : 1: "__
_} : "comp" : 1 "كرمان", "jid" "_
.7
] youth" : false, "middle_aged" : false, "old" : true; " برنيا", "first" : "پرنيا", "first" : "پرنيا", "ast" :
] name" } : "first" , "رها" : "last" , "جعفرى" } , "youth" : false, "middle_aged" : false, "old" : true "
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```

8.

