```
Exe A Lab assi 1

--------------------------------------------------------------------------

Create database Institute
> use Institute
switched to db Institute


--------------------------------------------------------------------------
Create collection Student.
> db.createCollection("Student")
{ "ok" : 1 }


--------------------------------------------------------------------------
Insert 10 documents
> db.Student.insert({
... S_id:"S111",S_name:"James Smith",Branch:"CSE",Age:20,Panel:"E",
... Address:{Area:"Kothrud",City:"Pune",Pincode:412300},
... Subjects:[{sub_name:"DBMS",score:85},{sub_name:"TOC",score:81}],
... Area_of_Interest:["DBMS","Networking"]
... });
WriteResult({ "nInserted" : 1 })
>
> db.Student.find().pretty()
{
        "_id" : ObjectId("60bb5715ae0512016f998c3f"),
        "S_id" : "S111",
        "S_name" : "James Smith",
        "Branch" : "CSE",
        "Age" : 20,
        "Panel" : "E",
        "Address" : {
                "Area" : "Kothrud",
                "City" : "Pune",
                "Pincode" : 412300
        },
        "Subjects" : [
                {
                        "sub_name" : "DBMS",
                        "score" : 85
                },
                {
                        "sub_name" : "TOC",
                        "score" : 81
                }
        ],
        "Area_of_Interest" : [
                "DBMS",
                "Networking"
        ]
}
>
>
>
> db.Student.insertMany([
... {S_id:"S112",S_name:"Michael Smith",Branch:"CSE",Age:20,Panel:"E",
... Address:{Area:"ShivTirth",City:"Pune",Pincode:412301},
... Subjects:[{sub_name:"DBMS",score:81},{sub_name:"IS",score:83}],
... Area_of_Interest:["DBMS","AI","ML"]},
... {S_id:"S113",S_name:"Robert Smith",Branch:"ECE",Age:21,Panel:"A",
... Address:{Area:"Swargate",City:"Pune",Pincode:412303},
... Subjects:[{sub_name:"AI",score:79},{sub_name:"TOC",score:80}],
... Area_of_Interest:["DBMS","AI","ML","Networking"]},
... {S_id:"S114",S_name:"Maria Garcia",Branch:"MECH",Age:21,Panel:"A",
... Address:{Area:"Shivajinagar",City:"Pune",Pincode:412307},
... Subjects:[{sub_name:"IS",score:90},{sub_name:"AI",score:82}],
... Area_of_Interest:["DBMS","Networking"]},
... {S_id:"S115",S_name:"David Smith",Branch:"ECE",Age:20,Panel:"B",
... Address:{Area:"Kothrud",City:"Pune",Pincode:412300},
```

```
 70    ... Subjects:[{sub_name:"TOC",score:78},{sub_name:"AI",score:80}],
 71    ... Area_of_Interest:["AI","DS"]},
 72    ... {S_id:"S116",S_name:"Maria Rodriguez",Branch:"CSE",Age:21,Panel:"B",
 73    ... Address:{Area:"Sangamvadi",City:"Pune",Pincode:412311},
 74    ... Subjects:[{sub_name:"IS",score:72},{sub_name:"TOC",score:75}],
 75    ... Area_of_Interest:["Networking","DWDM","OS"]},
 76    ... {S_id:"S117",S_name:"Mary Smith",Branch:"Civil",Age:20,Panel:"C",
 77    ... Address:{Area:"Hadapsar",City:"Pune",Pincode:412312},
 78    ... Subjects:[{sub_name:"TOC",score:92},{sub_name:"IS",score:93}],
 79    ... Area_of_Interest:["DBMS","DWDM","OS"]},
 80    ... {S_id:"S118",S_name:"Maria Hernandez",Branch:"Mech",Age:21,Panel:"E",
 81    ... Address:{Area:"Swargate",City:"Pune",Pincode:412303},
 82    ... Subjects:[{sub_name:"TOC",score:93},{sub_name:"AI",score:91}],
 83    ... Area_of_Interest:["DBMS","Web Dev"]},
 84    ... {S_id:"S119",S_name:"Lilly Martinez",Branch:"ECE",Age:20,Panel:"C",
 85    ... Address:{Area:"Kothrud",City:"Pune",Pincode:412300},
 86    ... Subjects:[{sub_name:"IS",score:81},{sub_name:"AI",score:90}],
 87    ... Area_of_Interest:["AWS","Web Dev"]},
 88    ... {S_id:"S120",S_name:"James Johnson",Branch:"CSE",Age:21,Panel:"C",
 89    ... Address:{Area:"Kothrud",City:"Pune",Pincode:412300},
 90    ... Subjects:[{sub_name:"DBMS",score:83},{sub_name:"AI",score:87}],
 91    ... Area_of_Interest:["AWS","Develops"]},
 92    ... ]);
 93    {
 94            "acknowledged" : true,
 95            "insertedIds" : [
 96                    ObjectId("60bb5739ae0512016f998c40"),
 97                    ObjectId("60bb5739ae0512016f998c41"),
 98                    ObjectId("60bb5739ae0512016f998c42"),
 99                    ObjectId("60bb5739ae0512016f998c43"),
100                    ObjectId("60bb5739ae0512016f998c44"),
101                    ObjectId("60bb5739ae0512016f998c45"),
102                    ObjectId("60bb5739ae0512016f998c46"),
103                    ObjectId("60bb5739ae0512016f998c47"),
104                    ObjectId("60bb5739ae0512016f998c48")
105            ]
106    }
107    >
108    >
109    > db.Student.find().pretty()
110    {
111            "_id" : ObjectId("60bb5715ae0512016f998c3f"),
112            "S_id" : "S111",
113            "S_name" : "James Smith",
114            "Branch" : "CSE",
115            "Age" : 20,
116            "Panel" : "E",
117            "Address" : {
118                    "Area" : "Kothrud",
119                    "City" : "Pune",
120                    "Pincode" : 412300
121            },
122            "Subjects" : [
123                    {
124                            "sub_name" : "DBMS",
125                            "score" : 85
126                    },
127                    {
128                            "sub_name" : "TOC",
129                            "score" : 81
130                    }
131            ],
132            "Area_of_Interest" : [
133                    "DBMS",
134                    "Networking"
135            ]
136    }
137    {
138            "_id" : ObjectId("60bb5739ae0512016f998c40"),
```

```
139             "S_id" : "S112",
140             "S_name" : "Michael Smith",
141             "Branch" : "CSE",
142             "Age" : 20,
143             "Panel" : "E",
144             "Address" : {
145                     "Area" : "ShivTirth",
146                     "City" : "Pune",
147                     "Pincode" : 412301
148             },
149             "Subjects" : [
150                     {
151                             "sub_name" : "DBMS",
152                             "score" : 81
153                     },
154                     {
155                             "sub_name" : "IS",
156                             "score" : 83
157                     }
158             ],
159             "Area_of_Interest" : [
160                     "DBMS",
161                     "AI",
162                     "ML"
163             ]
164     }
165     {
166             "_id" : ObjectId("60bb5739ae0512016f998c41"),
167             "S_id" : "S113",
168             "S_name" : "Robert Smith",
169             "Branch" : "ECE",
170             "Age" : 21,
171             "Panel" : "A",
172             "Address" : {
173                     "Area" : "Swargate",
174                     "City" : "Pune",
175                     "Pincode" : 412303
176             },
177             "Subjects" : [
178                     {
179                             "sub_name" : "AI",
180                             "score" : 79
181                     },
182                     {
183                             "sub_name" : "TOC",
184                             "score" : 80
185                     }
186             ],
187             "Area_of_Interest" : [
188                     "DBMS",
189                     "AI",
190                     "ML",
191                     "Networking"
192             ]
193     }
194     {
195             "_id" : ObjectId("60bb5739ae0512016f998c42"),
196             "S_id" : "S114",
197             "S_name" : "Maria Garcia",
198             "Branch" : "MECH",
199             "Age" : 21,
200             "Panel" : "A",
201             "Address" : {
202                     "Area" : "Shivajinagar",
203                     "City" : "Pune",
204                     "Pincode" : 412307
205             },
206             "Subjects" : [
207                     {
```

```
208                              "sub_name" : "IS",
209                              "score" : 90
210                      },
211                      {
212                              "sub_name" : "AI",
213                              "score" : 82
214                      }
215              ],
216              "Area_of_Interest" : [
217                      "DBMS",
218                      "Networking"
219              ]
220      }
221      {
222              "_id" : ObjectId("60bb5739ae0512016f998c43"),
223              "S_id" : "S115",
224              "S_name" : "David Smith",
225              "Branch" : "ECE",
226              "Age" : 20,
227              "Panel" : "B",
228              "Address" : {
229                      "Area" : "Kothrud",
230                      "City" : "Pune",
231                      "Pincode" : 412300
232              },
233              "Subjects" : [
234                      {
235                              "sub_name" : "TOC",
236                              "score" : 78
237                      },
238                      {
239                              "sub_name" : "AI",
240                              "score" : 80
241                      }
242              ],
243              "Area_of_Interest" : [
244                      "AI",
245                      "DS"
246              ]
247      }
248      {
249              "_id" : ObjectId("60bb5739ae0512016f998c44"),
250              "S_id" : "S116",
251              "S_name" : "Maria Rodriguez",
252              "Branch" : "CSE",
253              "Age" : 21,
254              "Panel" : "B",
255              "Address" : {
256                      "Area" : "Sangamvadi",
257                      "City" : "Pune",
258                      "Pincode" : 412311
259              },
260              "Subjects" : [
261                      {
262                              "sub_name" : "IS",
263                              "score" : 72
264                      },
265                      {
266                              "sub_name" : "TOC",
267                              "score" : 75
268                      }
269              ],
270              "Area_of_Interest" : [
271                      "Networking",
272                      "DWDM",
273                      "OS"
274              ]
275      }
276      {
```

```json
277            "_id" : ObjectId("60bb5739ae0512016f998c45"),
278            "S_id" : "S117",
279            "S_name" : "Mary Smith",
280            "Branch" : "Civil",
281            "Age" : 20,
282            "Panel" : "C",
283            "Address" : {
284                    "Area" : "Hadapsar",
285                    "City" : "Pune",
286                    "Pincode" : 412312
287            },
288            "Subjects" : [
289                    {
290                            "sub_name" : "TOC",
291                            "score" : 92
292                    },
293                    {
294                            "sub_name" : "IS",
295                            "score" : 93
296                    }
297            ],
298            "Area_of_Interest" : [
299                    "DBMS",
300                    "DWDM",
301                    "OS"
302            ]
303    }
304    {
305            "_id" : ObjectId("60bb5739ae0512016f998c46"),
306            "S_id" : "S118",
307            "S_name" : "Maria Hernandez",
308            "Branch" : "Mech",
309            "Age" : 21,
310            "Panel" : "E",
311            "Address" : {
312                    "Area" : "Swargate",
313                    "City" : "Pune",
314                    "Pincode" : 412303
315            },
316            "Subjects" : [
317                    {
318                            "sub_name" : "TOC",
319                            "score" : 93
320                    },
321                    {
322                            "sub_name" : "AI",
323                            "score" : 91
324                    }
325            ],
326            "Area_of_Interest" : [
327                    "DBMS",
328                    "Web Dev"
329            ]
330    }
331    {
332            "_id" : ObjectId("60bb5739ae0512016f998c47"),
333            "S_id" : "S119",
334            "S_name" : "Lilly Martinez",
335            "Branch" : "ECE",
336            "Age" : 20,
337            "Panel" : "C",
338            "Address" : {
339                    "Area" : "Kothrud",
340                    "City" : "Pune",
341                    "Pincode" : 412300
342            },
343            "Subjects" : [
344                    {
345                            "sub_name" : "IS",
```

```
                                  "score" : 81
                     },
                     {
                                  "sub_name" : "AI",
                                  "score" : 90
                     }
             ],
             "Area_of_Interest" : [
                     "AWS",
                     "Web Dev"
             ]
     }
     {
             "_id" : ObjectId("60bb5739ae0512016f998c48"),
             "S_id" : "S120",
             "S_name" : "James Johnson",
             "Branch" : "CSE",
             "Age" : 21,
             "Panel" : "C",
             "Address" : {
                     "Area" : "Kothrud",
                     "City" : "Pune",
                     "Pincode" : 412300
             },
             "Subjects" : [
                     {
                                  "sub_name" : "DBMS",
                                  "score" : 83
                     },
                     {
                                  "sub_name" : "AI",
                                  "score" : 87
                     }
             ],
             "Area_of_Interest" : [
                     "AWS",
                     "Develops"
             ]
     }

     ----------------------------------------------------------------------
     Increment Age by 2
     > db.Student.find({S_id:"S111"})
     { "_id" : ObjectId("60bb5715ae0512016f998c3f"), "S_id" : "S111", "S_name" : "James
     Smith", "Branch" : "CSE", "Age" : 20, "Panel" : "E", "Address" : { "Area" : "Kothrud",
     "City" : "Pune", "Pincode" : 412300 }, "Subjects" : [ { "sub_name" : "DBMS", "score" :
     85 }, { "sub_name" : "TOC", "score" : 81 } ], "Area_of_Interest" : [ "DBMS",
     "Networking" ] }
     > db.Student.find({S_id:"S111"}).pretty()
     {
             "_id" : ObjectId("60bb5715ae0512016f998c3f"),
             "S_id" : "S111",
             "S_name" : "James Smith",
             "Branch" : "CSE",
             "Age" : 20,
             "Panel" : "E",
             "Address" : {
                     "Area" : "Kothrud",
                     "City" : "Pune",
                     "Pincode" : 412300
             },
             "Subjects" : [
                     {
                                  "sub_name" : "DBMS",
                                  "score" : 85
                     },
                     {
                                  "sub_name" : "TOC",
                                  "score" : 81
```

```
411                         }
412                 ],
413             "Area_of_Interest" : [
414                     "DBMS",
415                     "Networking"
416             ]
417     }
418     >
419     > db.Student.update({S_id:"S111"},{$inc:{Age:2}});
420     WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
421     >
422     > db.Student.find({S_id:"S111"}).pretty()
423     {
424             "_id" : ObjectId("60bb5715ae0512016f998c3f"),
425             "S_id" : "S111",
426             "S_name" : "James Smith",
427             "Branch" : "CSE",
428             "Age" : 22,
429             "Panel" : "E",
430             "Address" : {
431                     "Area" : "Kothrud",
432                     "City" : "Pune",
433                     "Pincode" : 412300
434             },
435             "Subjects" : [
436                     {
437                             "sub_name" : "DBMS",
438                             "score" : 85
439                     },
440                     {
441                             "sub_name" : "TOC",
442                             "score" : 81
443                     }
444             ],
445             "Area_of_Interest" : [
446                     "DBMS",
447                     "Networking"
448             ]
449     }
450
451
452     ----------------------------------------------------------------------
453     Push Area_of_Interest
454     > db.Student.update({S_id:"S111"},{$push:{Area_of_Interest:{$each:["NLP"]}}})
455     WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
456     >
457     > db.Student.find({S_id:"S111"}).pretty()
458     {
459             "_id" : ObjectId("60bb5715ae0512016f998c3f"),
460             "S_id" : "S111",
461             "S_name" : "James Smith",
462             "Branch" : "CSE",
463             "Age" : 22,
464             "Panel" : "E",
465             "Address" : {
466                     "Area" : "Kothrud",
467                     "City" : "Pune",
468                     "Pincode" : 412300
469             },
470             "Subjects" : [
471                     {
472                             "sub_name" : "DBMS",
473                             "score" : 85
474                     },
475                     {
476                             "sub_name" : "TOC",
477                             "score" : 81
478                     }
479             ],
```

```
480            "Area_of_Interest" : [
481                    "DBMS",
482                    "Networking",
483                    "NLP"
484            ]
485    }
486
487
488    ------------------------------------------------------------------------
489    pop subjects
490    > db.Student.update({S_id:"S111"},{$pop:{Subjects:-1}})
491    WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
492    > db.Student.find({S_id:"S111"}).pretty()
493    {
494            "_id" : ObjectId("60bb5715ae0512016f998c3f"),
495            "S_id" : "S111",
496            "S_name" : "James Smith",
497            "Branch" : "CSE",
498            "Age" : 22,
499            "Panel" : "E",
500            "Address" : {
501                    "Area" : "Kothrud",
502                    "City" : "Pune",
503                    "Pincode" : 412300
504            },
505            "Subjects" : [
506                    {
507                            "sub_name" : "TOC",
508                            "score" : 81
509                    }
510            ],
511            "Area_of_Interest" : [
512                    "DBMS",
513                    "Networking",
514                    "NLP"
515            ]
516    }
517
518    ------------------------------------------------------------------------
519    Update record
520    >
       db.Student.update({S_id:"S111"},{$set:{Branch:"Mech",Address:{Area:"Hadapsar",Pincode:412
       312}}})
521    WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
522    >
523    > db.Student.find({S_id:"S111"}).pretty()
524    {
525            "_id" : ObjectId("60bb5715ae0512016f998c3f"),
526            "S_id" : "S111",
527            "S_name" : "James Smith",
528            "Branch" : "Mech",
529            "Age" : 22,
530            "Panel" : "E",
531            "Address" : {
532                    "Area" : "Hadapsar",
533                    "Pincode" : 412312
534            },
535            "Subjects" : [
536                    {
537                            "sub_name" : "TOC",
538                            "score" : 81
539                    }
540            ],
541            "Area_of_Interest" : [
542                    "DBMS",
543                    "Networking",
544                    "NLP"
545            ]
546    }
```

```
547
548
549    ----------------------------------------------------------------------
550
551    Update Panel B to Panel A
552    > db.Student.update({Panel:"B"},{$set:{Panel:"A"}},{multi:true})
553    WriteResult({ "nMatched" : 2, "nUpserted" : 0, "nModified" : 2 })
554    >
555    > db.Student.find({Panel:"A"}).pretty()
556    {
557            "_id" : ObjectId("60bb5739ae0512016f998c41"),
558            "S_id" : "S113",
559            "S_name" : "Robert Smith",
560            "Branch" : "ECE",
561            "Age" : 21,
562            "Panel" : "A",
563            "Address" : {
564                    "Area" : "Swargate",
565                    "City" : "Pune",
566                    "Pincode" : 412303
567            },
568            "Subjects" : [
569                    {
570                            "sub_name" : "AI",
571                            "score" : 79
572                    },
573                    {
574                            "sub_name" : "TOC",
575                            "score" : 80
576                    }
577            ],
578            "Area_of_Interest" : [
579                    "DBMS",
580                    "AI",
581                    "ML",
582                    "Networking"
583            ]
584    }
585    {
586            "_id" : ObjectId("60bb5739ae0512016f998c42"),
587            "S_id" : "S114",
588            "S_name" : "Maria Garcia",
589            "Branch" : "MECH",
590            "Age" : 21,
591            "Panel" : "A",
592            "Address" : {
593                    "Area" : "Shivajinagar",
594                    "City" : "Pune",
595                    "Pincode" : 412307
596            },
597            "Subjects" : [
598                    {
599                            "sub_name" : "IS",
600                            "score" : 90
601                    },
602                    {
603                            "sub_name" : "AI",
604                            "score" : 82
605                    }
606            ],
607            "Area_of_Interest" : [
608                    "DBMS",
609                    "Networking"
610            ]
611    }
612    {
613            "_id" : ObjectId("60bb5739ae0512016f998c43"),
614            "S_id" : "S115",
615            "S_name" : "David Smith",
```

```
            "Branch" : "ECE",
            "Age" : 20,
            "Panel" : "A",
            "Address" : {
                    "Area" : "Kothrud",
                    "City" : "Pune",
                    "Pincode" : 412300
            },
            "Subjects" : [
                    {
                            "sub_name" : "TOC",
                            "score" : 78
                    },
                    {
                            "sub_name" : "AI",
                            "score" : 80
                    }
            ],
            "Area_of_Interest" : [
                    "AI",
                    "DS"
            ]
    }
    {
            "_id" : ObjectId("60bb5739ae0512016f998c44"),
            "S_id" : "S116",
            "S_name" : "Maria Rodriguez",
            "Branch" : "CSE",
            "Age" : 21,
            "Panel" : "A",
            "Address" : {
                    "Area" : "Sangamvadi",
                    "City" : "Pune",
                    "Pincode" : 412311
            },
            "Subjects" : [
                    {
                            "sub_name" : "IS",
                            "score" : 72
                    },
                    {
                            "sub_name" : "TOC",
                            "score" : 75
                    }
            ],
            "Area_of_Interest" : [
                    "Networking",
                    "DWDM",
                    "OS"
            ]
    }


    -----------------------------------------------------------------------

    Update with upsert

    > db.Student.update({S_id:"S121"},{$set:{Branch:"CSE",Panel:"A"}},{upsert:true})
    WriteResult({
            "nMatched" : 0,
            "nUpserted" : 1,
            "nModified" : 0,
            "_id" : ObjectId("60bb5830f5322caf711ed8b1")
    })
    >
    > db.Student.find({S_id:"S121"}).pretty()
    {
            "_id" : ObjectId("60bb5830f5322caf711ed8b1"),
            "S_id" : "S121",
```

```
685              "Branch" : "CSE",
686              "Panel" : "A"
687  }
688  >
689  > db.Student.remove({Panel:"C"})
690  WriteResult({ "nRemoved" : 3 })
691  >
692  > db.Student.find({"Subjects.score":{$gte:85}})
693  { "_id" : ObjectId("60bb5739ae0512016f998c42"), "S_id" : "S114", "S_name" : "Maria
     Garcia", "Branch" : "MECH", "Age" : 21, "Panel" : "A", "Address" : { "Area" :
     "Shivajinagar", "City" : "Pune", "Pincode" : 412307 }, "Subjects" : [ { "sub_name" :
     "IS", "score" : 90 }, { "sub_name" : "AI", "score" : 82 } ], "Area_of_Interest" : [
     "DBMS", "Networking" ] }
694  { "_id" : ObjectId("60bb5739ae0512016f998c46"), "S_id" : "S118", "S_name" : "Maria
     Hernandez", "Branch" : "Mech", "Age" : 21, "Panel" : "E", "Address" : { "Area" :
     "Swargate", "City" : "Pune", "Pincode" : 412303 }, "Subjects" : [ { "sub_name" : "TOC",
     "score" : 93 }, { "sub_name" : "AI", "score" : 91 } ], "Area_of_Interest" : [ "DBMS",
     "Web Dev" ] }
695  > db.Student.find({"Subjects.score":{$gte:85}}).pretty()
696  {
697              "_id" : ObjectId("60bb5739ae0512016f998c42"),
698              "S_id" : "S114",
699              "S_name" : "Maria Garcia",
700              "Branch" : "MECH",
701              "Age" : 21,
702              "Panel" : "A",
703              "Address" : {
704                      "Area" : "Shivajinagar",
705                      "City" : "Pune",
706                      "Pincode" : 412307
707              },
708              "Subjects" : [
709                      {
710                              "sub_name" : "IS",
711                              "score" : 90
712                      },
713                      {
714                              "sub_name" : "AI",
715                              "score" : 82
716                      }
717              ],
718              "Area_of_Interest" : [
719                      "DBMS",
720                      "Networking"
721              ]
722  }
723  {
724              "_id" : ObjectId("60bb5739ae0512016f998c46"),
725              "S_id" : "S118",
726              "S_name" : "Maria Hernandez",
727              "Branch" : "Mech",
728              "Age" : 21,
729              "Panel" : "E",
730              "Address" : {
731                      "Area" : "Swargate",
732                      "City" : "Pune",
733                      "Pincode" : 412303
734              },
735              "Subjects" : [
736                      {
737                              "sub_name" : "TOC",
738                              "score" : 93
739                      },
740                      {
741                              "sub_name" : "AI",
742                              "score" : 91
743                      }
744              ],
745              "Area_of_Interest" : [
```

```
                "DBMS",
                "Web Dev"
        ]
}


------------------------------------------------------------------------
Use $gt, $gte, $lt

> db.Student.find({"Subjects.score":{$gt:90}}).pretty()
{
        "_id" : ObjectId("60bb5739ae0512016f998c46"),
        "S_id" : "S118",
        "S_name" : "Maria Hernandez",
        "Branch" : "Mech",
        "Age" : 21,
        "Panel" : "E",
        "Address" : {
                "Area" : "Swargate",
                "City" : "Pune",
                "Pincode" : 412303
        },
        "Subjects" : [
                {
                        "sub_name" : "TOC",
                        "score" : 93
                },
                {
                        "sub_name" : "AI",
                        "score" : 91
                }
        ],
        "Area_of_Interest" : [
                "DBMS",
                "Web Dev"
        ]
}
>
>
> db.Student.find({"Subjects.score":{$lt:80}}).pretty()
{
        "_id" : ObjectId("60bb5739ae0512016f998c41"),
        "S_id" : "S113",
        "S_name" : "Robert Smith",
        "Branch" : "ECE",
        "Age" : 21,
        "Panel" : "A",
        "Address" : {
                "Area" : "Swargate",
                "City" : "Pune",
                "Pincode" : 412303
        },
        "Subjects" : [
                {
                        "sub_name" : "AI",
                        "score" : 79
                },
                {
                        "sub_name" : "TOC",
                        "score" : 80
                }
        ],
        "Area_of_Interest" : [
                "DBMS",
                "AI",
                "ML",
                "Networking"
        ]
}
```

```
815    {
816            "_id" : ObjectId("60bb5739ae0512016f998c43"),
817            "S_id" : "S115",
818            "S_name" : "David Smith",
819            "Branch" : "ECE",
820            "Age" : 20,
821            "Panel" : "A",
822            "Address" : {
823                    "Area" : "Kothrud",
824                    "City" : "Pune",
825                    "Pincode" : 412300
826            },
827            "Subjects" : [
828                    {
829                            "sub_name" : "TOC",
830                            "score" : 78
831                    },
832                    {
833                            "sub_name" : "AI",
834                            "score" : 80
835                    }
836            ],
837            "Area_of_Interest" : [
838                    "AI",
839                    "DS"
840            ]
841    }
842    {
843            "_id" : ObjectId("60bb5739ae0512016f998c44"),
844            "S_id" : "S116",
845            "S_name" : "Maria Rodriguez",
846            "Branch" : "CSE",
847            "Age" : 21,
848            "Panel" : "A",
849            "Address" : {
850                    "Area" : "Sangamvadi",
851                    "City" : "Pune",
852                    "Pincode" : 412311
853            },
854            "Subjects" : [
855                    {
856                            "sub_name" : "IS",
857                            "score" : 72
858                    },
859                    {
860                            "sub_name" : "TOC",
861                            "score" : 75
862                    }
863            ],
864            "Area_of_Interest" : [
865                    "Networking",
866                    "DWDM",
867                    "OS"
868            ]
869    }
870    >
871    >
872    >
873    > db.Student.find({Age:{$gt:20}}).pretty()
874    {
875            "_id" : ObjectId("60bb5715ae0512016f998c3f"),
876            "S_id" : "S111",
877            "S_name" : "James Smith",
878            "Branch" : "Mech",
879            "Age" : 22,
880            "Panel" : "E",
881            "Address" : {
882                    "Area" : "Hadapsar",
883                    "Pincode" : 412312
```

```
884                    },
885              "Subjects" : [
886                        {
887                                "sub_name" : "TOC",
888                                "score" : 81
889                        }
890              ],
891              "Area_of_Interest" : [
892                        "DBMS",
893                        "Networking",
894                        "NLP"
895              ]
896    }
897    {
898              "_id" : ObjectId("60bb5739ae0512016f998c41"),
899              "S_id" : "S113",
900              "S_name" : "Robert Smith",
901              "Branch" : "ECE",
902              "Age" : 21,
903              "Panel" : "A",
904              "Address" : {
905                        "Area" : "Swargate",
906                        "City" : "Pune",
907                        "Pincode" : 412303
908              },
909              "Subjects" : [
910                        {
911                                "sub_name" : "AI",
912                                "score" : 79
913                        },
914                        {
915                                "sub_name" : "TOC",
916                                "score" : 80
917                        }
918              ],
919              "Area_of_Interest" : [
920                        "DBMS",
921                        "AI",
922                        "ML",
923                        "Networking"
924              ]
925    }
926    {
927              "_id" : ObjectId("60bb5739ae0512016f998c42"),
928              "S_id" : "S114",
929              "S_name" : "Maria Garcia",
930              "Branch" : "MECH",
931              "Age" : 21,
932              "Panel" : "A",
933              "Address" : {
934                        "Area" : "Shivajinagar",
935                        "City" : "Pune",
936                        "Pincode" : 412307
937              },
938              "Subjects" : [
939                        {
940                                "sub_name" : "IS",
941                                "score" : 90
942                        },
943                        {
944                                "sub_name" : "AI",
945                                "score" : 82
946                        }
947              ],
948              "Area_of_Interest" : [
949                        "DBMS",
950                        "Networking"
951              ]
952    }
```

```
953     {
954             "_id" : ObjectId("60bb5739ae0512016f998c44"),
955             "S_id" : "S116",
956             "S_name" : "Maria Rodriguez",
957             "Branch" : "CSE",
958             "Age" : 21,
959             "Panel" : "A",
960             "Address" : {
961                     "Area" : "Sangamvadi",
962                     "City" : "Pune",
963                     "Pincode" : 412311
964             },
965             "Subjects" : [
966                     {
967                             "sub_name" : "IS",
968                             "score" : 72
969                     },
970                     {
971                             "sub_name" : "TOC",
972                             "score" : 75
973                     }
974             ],
975             "Area_of_Interest" : [
976                     "Networking",
977                     "DWDM",
978                     "OS"
979             ]
980     }
981     {
982             "_id" : ObjectId("60bb5739ae0512016f998c46"),
983             "S_id" : "S118",
984             "S_name" : "Maria Hernandez",
985             "Branch" : "Mech",
986             "Age" : 21,
987             "Panel" : "E",
988             "Address" : {
989                     "Area" : "Swargate",
990                     "City" : "Pune",
991                     "Pincode" : 412303
992             },
993             "Subjects" : [
994                     {
995                             "sub_name" : "TOC",
996                             "score" : 93
997                     },
998                     {
999                             "sub_name" : "AI",
1000                            "score" : 91
1001                    }
1002            ],
1003            "Area_of_Interest" : [
1004                    "DBMS",
1005                    "Web Dev"
1006            ]
1007    }
1008
1009
1010    ------------------------------------------------------------------------
1011
1012    Record starting with M
1013    > db.Student.find({S_name:{$regex:/^M/}}).pretty()
1014    {
1015            "_id" : ObjectId("60bb5739ae0512016f998c40"),
1016            "S_id" : "S112",
1017            "S_name" : "Michael Smith",
1018            "Branch" : "CSE",
1019            "Age" : 20,
1020            "Panel" : "E",
1021            "Address" : {
```

```
1022                    "Area" : "ShivTirth",
1023                    "City" : "Pune",
1024                    "Pincode" : 412301
1025            },
1026            "Subjects" : [
1027                    {
1028                            "sub_name" : "DBMS",
1029                            "score" : 81
1030                    },
1031                    {
1032                            "sub_name" : "IS",
1033                            "score" : 83
1034                    }
1035            ],
1036            "Area_of_Interest" : [
1037                    "DBMS",
1038                    "AI",
1039                    "ML"
1040            ]
1041    }
1042    {
1043            "_id" : ObjectId("60bb5739ae0512016f998c42"),
1044            "S_id" : "S114",
1045            "S_name" : "Maria Garcia",
1046            "Branch" : "MECH",
1047            "Age" : 21,
1048            "Panel" : "A",
1049            "Address" : {
1050                    "Area" : "Shivajinagar",
1051                    "City" : "Pune",
1052                    "Pincode" : 412307
1053            },
1054            "Subjects" : [
1055                    {
1056                            "sub_name" : "IS",
1057                            "score" : 90
1058                    },
1059                    {
1060                            "sub_name" : "AI",
1061                            "score" : 82
1062                    }
1063            ],
1064            "Area_of_Interest" : [
1065                    "DBMS",
1066                    "Networking"
1067            ]
1068    }
1069    {
1070            "_id" : ObjectId("60bb5739ae0512016f998c44"),
1071            "S_id" : "S116",
1072            "S_name" : "Maria Rodriguez",
1073            "Branch" : "CSE",
1074            "Age" : 21,
1075            "Panel" : "A",
1076            "Address" : {
1077                    "Area" : "Sangamvadi",
1078                    "City" : "Pune",
1079                    "Pincode" : 412311
1080            },
1081            "Subjects" : [
1082                    {
1083                            "sub_name" : "IS",
1084                            "score" : 72
1085                    },
1086                    {
1087                            "sub_name" : "TOC",
1088                            "score" : 75
1089                    }
1090            ],
```

```
           "Area_of_Interest" : [
                   "Networking",
                   "DWDM",
                   "OS"
           ]
}
{
       "_id" : ObjectId("60bb5739ae0512016f998c46"),
       "S_id" : "S118",
       "S_name" : "Maria Hernandez",
       "Branch" : "Mech",
       "Age" : 21,
       "Panel" : "E",
       "Address" : {
               "Area" : "Swargate",
               "City" : "Pune",
               "Pincode" : 412303
       },
       "Subjects" : [
               {
                       "sub_name" : "TOC",
                       "score" : 93
               },
               {
                       "sub_name" : "AI",
                       "score" : 91
               }
       ],
       "Area_of_Interest" : [
               "DBMS",
               "Web Dev"
       ]
}
>
>
> db.Student.find({S_name:{$regex:/z$/}}).pretty()
{
       "_id" : ObjectId("60bb5739ae0512016f998c44"),
       "S_id" : "S116",
       "S_name" : "Maria Rodriguez",
       "Branch" : "CSE",
       "Age" : 21,
       "Panel" : "A",
       "Address" : {
               "Area" : "Sangamvadi",
               "City" : "Pune",
               "Pincode" : 412311
       },
       "Subjects" : [
               {
                       "sub_name" : "IS",
                       "score" : 72
               },
               {
                       "sub_name" : "TOC",
                       "score" : 75
               }
       ],
       "Area_of_Interest" : [
               "Networking",
               "DWDM",
               "OS"
       ]
}
{
       "_id" : ObjectId("60bb5739ae0512016f998c46"),
       "S_id" : "S118",
       "S_name" : "Maria Hernandez",
       "Branch" : "Mech",
```

```
                 "Age" : 21,
                 "Panel" : "E",
                 "Address" : {
                         "Area" : "Swargate",
                         "City" : "Pune",
                         "Pincode" : 412303
                 },
                 "Subjects" : [
                         {
                                 "sub_name" : "TOC",
                                 "score" : 93
                         },
                         {
                                 "sub_name" : "AI",
                                 "score" : 91
                         }
                 ],
                 "Area_of_Interest" : [
                         "DBMS",
                         "Web Dev"
                 ]
        }


        ------------------------------------------------------------------------
        Total number od Doc
        > db.Student.count()
        8



        ------------------------------------------------------------------------
        Doc with Area_of_Interest having four value
        > db.Student.find({Area_of_Interest:{$size:4}}).pretty()
        {
                 "_id" : ObjectId("60bb5739ae0512016f998c41"),
                 "S_id" : "S113",
                 "S_name" : "Robert Smith",
                 "Branch" : "ECE",
                 "Age" : 21,
                 "Panel" : "A",
                 "Address" : {
                         "Area" : "Swargate",
                         "City" : "Pune",
                         "Pincode" : 412303
                 },
                 "Subjects" : [
                         {
                                 "sub_name" : "AI",
                                 "score" : 79
                         },
                         {
                                 "sub_name" : "TOC",
                                 "score" : 80
                         }
                 ],
                 "Area_of_Interest" : [
                         "DBMS",
                         "AI",
                         "ML",
                         "Networking"
                 ]
        }


        ------------------------------------------------------------------------
        Display only name
        > db.Student.find({},{_id:0,S_name:1}).pretty()
        { "S_name" : "James Smith" }
        { "S_name" : "Michael Smith" }
```

```
1229    { "S_name" : "Robert Smith" }
1230    { "S_name" : "Maria Garcia" }
1231    { "S_name" : "David Smith" }
1232    { "S_name" : "Maria Rodriguez" }
1233    { "S_name" : "Maria Hernandez" }
1234    { }
1235
1236
1237    -----------------------------------------------------------------------
1238    Sorting Doc in descending
1239    > db.Student.find().sort({S_name:-1}).pretty()
1240    {
1241            "_id" : ObjectId("60bb5739ae0512016f998c41"),
1242            "S_id" : "S113",
1243            "S_name" : "Robert Smith",
1244            "Branch" : "ECE",
1245            "Age" : 21,
1246            "Panel" : "A",
1247            "Address" : {
1248                    "Area" : "Swargate",
1249                    "City" : "Pune",
1250                    "Pincode" : 412303
1251            },
1252            "Subjects" : [
1253                    {
1254                            "sub_name" : "AI",
1255                            "score" : 79
1256                    },
1257                    {
1258                            "sub_name" : "TOC",
1259                            "score" : 80
1260                    }
1261            ],
1262            "Area_of_Interest" : [
1263                    "DBMS",
1264                    "AI",
1265                    "ML",
1266                    "Networking"
1267            ]
1268    }
1269    {
1270            "_id" : ObjectId("60bb5739ae0512016f998c40"),
1271            "S_id" : "S112",
1272            "S_name" : "Michael Smith",
1273            "Branch" : "CSE",
1274            "Age" : 20,
1275            "Panel" : "E",
1276            "Address" : {
1277                    "Area" : "ShivTirth",
1278                    "City" : "Pune",
1279                    "Pincode" : 412301
1280            },
1281            "Subjects" : [
1282                    {
1283                            "sub_name" : "DBMS",
1284                            "score" : 81
1285                    },
1286                    {
1287                            "sub_name" : "IS",
1288                            "score" : 83
1289                    }
1290            ],
1291            "Area_of_Interest" : [
1292                    "DBMS",
1293                    "AI",
1294                    "ML"
1295            ]
1296    }
1297    {
```

```
1298            "_id" : ObjectId("60bb5739ae0512016f998c44"),
1299            "S_id" : "S116",
1300            "S_name" : "Maria Rodriguez",
1301            "Branch" : "CSE",
1302            "Age" : 21,
1303            "Panel" : "A",
1304            "Address" : {
1305                    "Area" : "Sangamvadi",
1306                    "City" : "Pune",
1307                    "Pincode" : 412311
1308            },
1309            "Subjects" : [
1310                    {
1311                            "sub_name" : "IS",
1312                            "score" : 72
1313                    },
1314                    {
1315                            "sub_name" : "TOC",
1316                            "score" : 75
1317                    }
1318            ],
1319            "Area_of_Interest" : [
1320                    "Networking",
1321                    "DWDM",
1322                    "OS"
1323            ]
1324    }
1325    {
1326            "_id" : ObjectId("60bb5739ae0512016f998c46"),
1327            "S_id" : "S118",
1328            "S_name" : "Maria Hernandez",
1329            "Branch" : "Mech",
1330            "Age" : 21,
1331            "Panel" : "E",
1332            "Address" : {
1333                    "Area" : "Swargate",
1334                    "City" : "Pune",
1335                    "Pincode" : 412303
1336            },
1337            "Subjects" : [
1338                    {
1339                            "sub_name" : "TOC",
1340                            "score" : 93
1341                    },
1342                    {
1343                            "sub_name" : "AI",
1344                            "score" : 91
1345                    }
1346            ],
1347            "Area_of_Interest" : [
1348                    "DBMS",
1349                    "Web Dev"
1350            ]
1351    }
1352    {
1353            "_id" : ObjectId("60bb5739ae0512016f998c42"),
1354            "S_id" : "S114",
1355            "S_name" : "Maria Garcia",
1356            "Branch" : "MECH",
1357            "Age" : 21,
1358            "Panel" : "A",
1359            "Address" : {
1360                    "Area" : "Shivajinagar",
1361                    "City" : "Pune",
1362                    "Pincode" : 412307
1363            },
1364            "Subjects" : [
1365                    {
1366                            "sub_name" : "IS",
```

```
                                        "score" : 90
                        },
                        {
                                "sub_name" : "AI",
                                "score" : 82
                        }
                ],
                "Area_of_Interest" : [
                        "DBMS",
                        "Networking"
                ]
        }
        {
                "_id" : ObjectId("60bb5715ae0512016f998c3f"),
                "S_id" : "S111",
                "S_name" : "James Smith",
                "Branch" : "Mech",
                "Age" : 22,
                "Panel" : "E",
                "Address" : {
                        "Area" : "Hadapsar",
                        "Pincode" : 412312
                },
                "Subjects" : [
                        {
                                "sub_name" : "TOC",
                                "score" : 81
                        }
                ],
                "Area_of_Interest" : [
                        "DBMS",
                        "Networking",
                        "NLP"
                ]
        }
        {
                "_id" : ObjectId("60bb5739ae0512016f998c43"),
                "S_id" : "S115",
                "S_name" : "David Smith",
                "Branch" : "ECE",
                "Age" : 20,
                "Panel" : "A",
                "Address" : {
                        "Area" : "Kothrud",
                        "City" : "Pune",
                        "Pincode" : 412300
                },
                "Subjects" : [
                        {
                                "sub_name" : "TOC",
                                "score" : 78
                        },
                        {
                                "sub_name" : "AI",
                                "score" : 80
                        }
                ],
                "Area_of_Interest" : [
                        "AI",
                        "DS"
                ]
        }
        {
                "_id" : ObjectId("60bb5830f5322caf711ed8b1"),
                "S_id" : "S121",
                "Branch" : "CSE",
                "Panel" : "A"
        }
```

```
1436
1437    ----------------------------------------------------------------------
1438    Query using and operation
1439    > db.Student.find({$and:[{Age:{$gt:20}},{Panel:"A"}]}).pretty()
1440    {
1441            "_id" : ObjectId("60bb5739ae0512016f998c41"),
1442            "S_id" : "S113",
1443            "S_name" : "Robert Smith",
1444            "Branch" : "ECE",
1445            "Age" : 21,
1446            "Panel" : "A",
1447            "Address" : {
1448                    "Area" : "Swargate",
1449                    "City" : "Pune",
1450                    "Pincode" : 412303
1451            },
1452            "Subjects" : [
1453                    {
1454                            "sub_name" : "AI",
1455                            "score" : 79
1456                    },
1457                    {
1458                            "sub_name" : "TOC",
1459                            "score" : 80
1460                    }
1461            ],
1462            "Area_of_Interest" : [
1463                    "DBMS",
1464                    "AI",
1465                    "ML",
1466                    "Networking"
1467            ]
1468    }
1469    {
1470            "_id" : ObjectId("60bb5739ae0512016f998c42"),
1471            "S_id" : "S114",
1472            "S_name" : "Maria Garcia",
1473            "Branch" : "MECH",
1474            "Age" : 21,
1475            "Panel" : "A",
1476            "Address" : {
1477                    "Area" : "Shivajinagar",
1478                    "City" : "Pune",
1479                    "Pincode" : 412307
1480            },
1481            "Subjects" : [
1482                    {
1483                            "sub_name" : "IS",
1484                            "score" : 90
1485                    },
1486                    {
1487                            "sub_name" : "AI",
1488                            "score" : 82
1489                    }
1490            ],
1491            "Area_of_Interest" : [
1492                    "DBMS",
1493                    "Networking"
1494            ]
1495    }
1496    {
1497            "_id" : ObjectId("60bb5739ae0512016f998c44"),
1498            "S_id" : "S116",
1499            "S_name" : "Maria Rodriguez",
1500            "Branch" : "CSE",
1501            "Age" : 21,
1502            "Panel" : "A",
1503            "Address" : {
1504                    "Area" : "Sangamvadi",
```

```
1505                             "City" : "Pune",
1506                             "Pincode" : 412311
1507                     },
1508             "Subjects" : [
1509                     {
1510                                     "sub_name" : "IS",
1511                                     "score" : 72
1512                     },
1513                     {
1514                                     "sub_name" : "TOC",
1515                                     "score" : 75
1516                     }
1517             ],
1518             "Area_of_Interest" : [
1519                     "Networking",
1520                     "DWDM",
1521                     "OS"
1522             ]
1523     }
1524
1525
1526     --------------------------------------------------------------------
1527
1528     Query using or operation
1529     > db.Student.find({$or:[{Panel:"E"},{Panel:"A"}]}).pretty()
1530     {
1531             "_id" : ObjectId("60bb5715ae0512016f998c3f"),
1532             "S_id" : "S111",
1533             "S_name" : "James Smith",
1534             "Branch" : "Mech",
1535             "Age" : 22,
1536             "Panel" : "E",
1537             "Address" : {
1538                     "Area" : "Hadapsar",
1539                     "Pincode" : 412312
1540             },
1541             "Subjects" : [
1542                     {
1543                                     "sub_name" : "TOC",
1544                                     "score" : 81
1545                     }
1546             ],
1547             "Area_of_Interest" : [
1548                     "DBMS",
1549                     "Networking",
1550                     "NLP"
1551             ]
1552     }
1553     {
1554             "_id" : ObjectId("60bb5739ae0512016f998c40"),
1555             "S_id" : "S112",
1556             "S_name" : "Michael Smith",
1557             "Branch" : "CSE",
1558             "Age" : 20,
1559             "Panel" : "E",
1560             "Address" : {
1561                     "Area" : "ShivTirth",
1562                     "City" : "Pune",
1563                     "Pincode" : 412301
1564             },
1565             "Subjects" : [
1566                     {
1567                                     "sub_name" : "DBMS",
1568                                     "score" : 81
1569                     },
1570                     {
1571                                     "sub_name" : "IS",
1572                                     "score" : 83
1573                     }
```

```
        ],
        "Area_of_Interest" : [
                "DBMS",
                "AI",
                "ML"
        ]
}
{
        "_id" : ObjectId("60bb5739ae0512016f998c41"),
        "S_id" : "S113",
        "S_name" : "Robert Smith",
        "Branch" : "ECE",
        "Age" : 21,
        "Panel" : "A",
        "Address" : {
                "Area" : "Swargate",
                "City" : "Pune",
                "Pincode" : 412303
        },
        "Subjects" : [
                {
                        "sub_name" : "AI",
                        "score" : 79
                },
                {
                        "sub_name" : "TOC",
                        "score" : 80
                }
        ],
        "Area_of_Interest" : [
                "DBMS",
                "AI",
                "ML",
                "Networking"
        ]
}
{
        "_id" : ObjectId("60bb5739ae0512016f998c42"),
        "S_id" : "S114",
        "S_name" : "Maria Garcia",
        "Branch" : "MECH",
        "Age" : 21,
        "Panel" : "A",
        "Address" : {
                "Area" : "Shivajinagar",
                "City" : "Pune",
                "Pincode" : 412307
        },
        "Subjects" : [
                {
                        "sub_name" : "IS",
                        "score" : 90
                },
                {
                        "sub_name" : "AI",
                        "score" : 82
                }
        ],
        "Area_of_Interest" : [
                "DBMS",
                "Networking"
        ]
}
{
        "_id" : ObjectId("60bb5739ae0512016f998c43"),
        "S_id" : "S115",
        "S_name" : "David Smith",
        "Branch" : "ECE",
        "Age" : 20,
```

```
1643            "Panel" : "A",
1644            "Address" : {
1645                    "Area" : "Kothrud",
1646                    "City" : "Pune",
1647                    "Pincode" : 412300
1648            },
1649            "Subjects" : [
1650                    {
1651                            "sub_name" : "TOC",
1652                            "score" : 78
1653                    },
1654                    {
1655                            "sub_name" : "AI",
1656                            "score" : 80
1657                    }
1658            ],
1659            "Area_of_Interest" : [
1660                    "AI",
1661                    "DS"
1662            ]
1663    }
1664    {
1665            "_id" : ObjectId("60bb5739ae0512016f998c44"),
1666            "S_id" : "S116",
1667            "S_name" : "Maria Rodriguez",
1668            "Branch" : "CSE",
1669            "Age" : 21,
1670            "Panel" : "A",
1671            "Address" : {
1672                    "Area" : "Sangamvadi",
1673                    "City" : "Pune",
1674                    "Pincode" : 412311
1675            },
1676            "Subjects" : [
1677                    {
1678                            "sub_name" : "IS",
1679                            "score" : 72
1680                    },
1681                    {
1682                            "sub_name" : "TOC",
1683                            "score" : 75
1684                    }
1685            ],
1686            "Area_of_Interest" : [
1687                    "Networking",
1688                    "DWDM",
1689                    "OS"
1690            ]
1691    }
1692    {
1693            "_id" : ObjectId("60bb5739ae0512016f998c46"),
1694            "S_id" : "S118",
1695            "S_name" : "Maria Hernandez",
1696            "Branch" : "Mech",
1697            "Age" : 21,
1698            "Panel" : "E",
1699            "Address" : {
1700                    "Area" : "Swargate",
1701                    "City" : "Pune",
1702                    "Pincode" : 412303
1703            },
1704            "Subjects" : [
1705                    {
1706                            "sub_name" : "TOC",
1707                            "score" : 93
1708                    },
1709                    {
1710                            "sub_name" : "AI",
1711                            "score" : 91
```

```
                         }
             ],
             "Area_of_Interest" : [
                        "DBMS",
                        "Web Dev"
             ]
 }
 {
             "_id" : ObjectId("60bb5830f5322caf711ed8b1"),
             "S_id" : "S121",
             "Branch" : "CSE",
             "Panel" : "A"
 }


 ----------------------------------------------------------------------
 Display only two documents
 > db.Student.find().pretty().limit(2)
 {
             "_id" : ObjectId("60bb5715ae0512016f998c3f"),
             "S_id" : "S111",
             "S_name" : "James Smith",
             "Branch" : "Mech",
             "Age" : 22,
             "Panel" : "E",
             "Address" : {
                        "Area" : "Hadapsar",
                        "Pincode" : 412312
             },
             "Subjects" : [
                        {
                                    "sub_name" : "TOC",
                                    "score" : 81
                        }
             ],
             "Area_of_Interest" : [
                        "DBMS",
                        "Networking",
                        "NLP"
             ]
 }
 {
             "_id" : ObjectId("60bb5739ae0512016f998c40"),
             "S_id" : "S112",
             "S_name" : "Michael Smith",
             "Branch" : "CSE",
             "Age" : 20,
             "Panel" : "E",
             "Address" : {
                        "Area" : "ShivTirth",
                        "City" : "Pune",
                        "Pincode" : 412301
             },
             "Subjects" : [
                        {
                                    "sub_name" : "DBMS",
                                    "score" : 81
                        },
                        {
                                    "sub_name" : "IS",
                                    "score" : 83
                        }
             ],
             "Area_of_Interest" : [
                        "DBMS",
                        "AI",
                        "ML"
             ]
 }
```

```
--------------------------------------------------------------------------
Query using all operation
> db.Student.find({Area_of_Interest:{$all:["DBMS","ML"]}}).pretty()
{
        "_id" : ObjectId("60bb5739ae0512016f998c40"),
        "S_id" : "S112",
        "S_name" : "Michael Smith",
        "Branch" : "CSE",
        "Age" : 20,
        "Panel" : "E",
        "Address" : {
                "Area" : "ShivTirth",
                "City" : "Pune",
                "Pincode" : 412301
        },
        "Subjects" : [
                {
                        "sub_name" : "DBMS",
                        "score" : 81
                },
                {
                        "sub_name" : "IS",
                        "score" : 83
                }
        ],
        "Area_of_Interest" : [
                "DBMS",
                "AI",
                "ML"
        ]
}
{
        "_id" : ObjectId("60bb5739ae0512016f998c41"),
        "S_id" : "S113",
        "S_name" : "Robert Smith",
        "Branch" : "ECE",
        "Age" : 21,
        "Panel" : "A",
        "Address" : {
                "Area" : "Swargate",
                "City" : "Pune",
                "Pincode" : 412303
        },
        "Subjects" : [
                {
                        "sub_name" : "AI",
                        "score" : 79
                },
                {
                        "sub_name" : "TOC",
                        "score" : 80
                }
        ],
        "Area_of_Interest" : [
                "DBMS",
                "AI",
                "ML",
                "Networking"
        ]
}
>


--------------------------------------------------------------------------

Drop Document
```

```
1850    > db.Customer.drop()
1851    true
1852
1853
```