

```

1  Exe A Lab assi 1
2
3  -----
4
5  Create database Institute
6  > use Institute
7  switched to db Institute
8
9  -----
10 Create collection Student.
11 > db.createCollection("Student")
12 { "ok" : 1 }
13
14 -----
15 Insert 10 documents
16 > db.Student.insert({
17   ... S_id:"S111",S_name:"James Smith",Branch:"CSE",Age:20,Panel:"E",
18   ... Address:{Area:"Kothrud",City:"Pune",Pincode:412300},
19   ... Subjects:[{sub_name:"DBMS",score:85},{sub_name:"TOC",score:81}],
20   ... Area_of_Interest:["DBMS","Networking"]
21   ... });
22 WriteResult({ "nInserted" : 1 })
23 >
24 > db.Student.find().pretty()
25 {
26     "_id" : ObjectId("60bb5715ae0512016f998c3f"),
27     "S_id" : "S111",
28     "S_name" : "James Smith",
29     "Branch" : "CSE",
30     "Age" : 20,
31     "Panel" : "E",
32     "Address" : {
33         "Area" : "Kothrud",
34         "City" : "Pune",
35         "Pincode" : 412300
36     },
37     "Subjects" : [
38         {
39             "sub_name" : "DBMS",
40             "score" : 85
41         },
42         {
43             "sub_name" : "TOC",
44             "score" : 81
45         }
46     ],
47     "Area_of_Interest" : [
48         "DBMS",
49         "Networking"
50     ]
51 }
52 >
53 >
54 >
55 > db.Student.insertMany([
56   ... {S_id:"S112",S_name:"Michael Smith",Branch:"CSE",Age:20,Panel:"E",
57   ... Address:{Area:"ShivTirth",City:"Pune",Pincode:412301},
58   ... Subjects:[{sub_name:"DBMS",score:81},{sub_name:"IS",score:83}],
59   ... Area_of_Interest:["DBMS","AI","ML"]},
60   ... {S_id:"S113",S_name:"Robert Smith",Branch:"ECE",Age:21,Panel:"A",
61   ... Address:{Area:"Swargate",City:"Pune",Pincode:412303},
62   ... Subjects:[{sub_name:"AI",score:79},{sub_name:"TOC",score:80}],
63   ... Area_of_Interest:["DBMS","AI","ML","Networking"]},
64   ... {S_id:"S114",S_name:"Maria Garcia",Branch:"MECH",Age:21,Panel:"A",
65   ... Address:{Area:"Shivajinagar",City:"Pune",Pincode:412307},
66   ... Subjects:[{sub_name:"IS",score:90},{sub_name:"AI",score:82}],
67   ... Area_of_Interest:["DBMS","Networking"]},
68   ... {S_id:"S115",S_name:"David Smith",Branch:"ECE",Age:20,Panel:"B",
69   ... Address:{Area:"Kothrud",City:"Pune",Pincode:412300},

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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","DWDWM","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","DWDWM","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"),

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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         {

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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 {

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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",

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346         "score" : 81
347     },
348     {
349         "sub_name" : "AI",
350         "score" : 90
351     }
352 ],
353 "Area_of_Interest" : [
354     "AWS",
355     "Web Dev"
356 ]
357 }
358 {
359     "_id" : ObjectId("60bb5739ae0512016f998c48"),
360     "S_id" : "S120",
361     "S_name" : "James Johnson",
362     "Branch" : "CSE",
363     "Age" : 21,
364     "Panel" : "C",
365     "Address" : {
366         "Area" : "Kothrud",
367         "City" : "Pune",
368         "Pincode" : 412300
369     },
370     "Subjects" : [
371         {
372             "sub_name" : "DBMS",
373             "score" : 83
374         },
375         {
376             "sub_name" : "AI",
377             "score" : 87
378         }
379     ],
380     "Area_of_Interest" : [
381         "AWS",
382         "Develops"
383     ]
384 }
385
386 -----
387 Increment Age by 2
388 > db.Student.find({S_id:"S111"})
389 { "_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" ] }
390 > db.Student.find({S_id:"S111"}).pretty()
391 {
392     "_id" : ObjectId("60bb5715ae0512016f998c3f"),
393     "S_id" : "S111",
394     "S_name" : "James Smith",
395     "Branch" : "CSE",
396     "Age" : 20,
397     "Panel" : "E",
398     "Address" : {
399         "Area" : "Kothrud",
400         "City" : "Pune",
401         "Pincode" : 412300
402     },
403     "Subjects" : [
404         {
405             "sub_name" : "DBMS",
406             "score" : 85
407         },
408         {
409             "sub_name" : "TOC",
410             "score" : 81

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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     ],

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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"},{$pop:{Subjects:-1}})
491 WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
492 > db.Student.find({S_id:"S111"}).pretty()
493 {
494     "_id" : ObjectId("60bb5715ae0512016f998c3f"),
495     "S_id" : "S111",
496     "S_name" : "James Smith",
497     "Branch" : "CSE",
498     "Age" : 22,
499     "Panel" : "E",
500     "Address" : {
501         "Area" : "Kothrud",
502         "City" : "Pune",
503         "Pincode" : 412300
504     },
505     "Subjects" : [
506         {
507             "sub_name" : "TOC",
508             "score" : 81
509         }
510     ],
511     "Area_of_Interest" : [
512         "DBMS",
513         "Networking",
514         "NLP"
515     ]
516 }
517
518 -----
519 Update record
520 >
521 db.Student.update({S_id:"S111"},{$set:{Branch:"Mech",Address:{Area:"Hadapsar",Pincode:412312}}})
522 WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
523 >
524 > db.Student.find({S_id:"S111"}).pretty()
525 {
526     "_id" : ObjectId("60bb5715ae0512016f998c3f"),
527     "S_id" : "S111",
528     "S_name" : "James Smith",
529     "Branch" : "Mech",
530     "Age" : 22,
531     "Panel" : "E",
532     "Address" : {
533         "Area" : "Hadapsar",
534         "Pincode" : 412312
535     },
536     "Subjects" : [
537         {
538             "sub_name" : "TOC",
539             "score" : 81
540         }
541     ],
542     "Area_of_Interest" : [
543         "DBMS",
544         "Networking",
545         "NLP"
546     ]
547 }

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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",

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```

616         "Branch" : "ECE",
617         "Age" : 20,
618         "Panel" : "A",
619         "Address" : {
620             "Area" : "Kothrud",
621             "City" : "Pune",
622             "Pincode" : 412300
623         },
624         "Subjects" : [
625             {
626                 "sub_name" : "TOC",
627                 "score" : 78
628             },
629             {
630                 "sub_name" : "AI",
631                 "score" : 80
632             }
633         ],
634         "Area_of_Interest" : [
635             "AI",
636             "DS"
637         ]
638     }
639     {
640         "_id" : ObjectId("60bb5739ae0512016f998c44"),
641         "S_id" : "S116",
642         "S_name" : "Maria Rodriguez",
643         "Branch" : "CSE",
644         "Age" : 21,
645         "Panel" : "A",
646         "Address" : {
647             "Area" : "Sangamvadi",
648             "City" : "Pune",
649             "Pincode" : 412311
650         },
651         "Subjects" : [
652             {
653                 "sub_name" : "IS",
654                 "score" : 72
655             },
656             {
657                 "sub_name" : "TOC",
658                 "score" : 75
659             }
660         ],
661         "Area_of_Interest" : [
662             "Networking",
663             "DWDM",
664             "OS"
665         ]
666     }
667
668
669 -----
670
671 Update with upsert
672
673 > db.Student.update({S_id:"S121"},{$set:{Branch:"CSE",Panel:"A"}},{upsert:true})
674 WriteResult({
675     "nMatched" : 0,
676     "nUpserted" : 1,
677     "nModified" : 0,
678     "_id" : ObjectId("60bb5830f5322caf711ed8b1")
679 })
680 >
681 > db.Student.find({S_id:"S121"}).pretty()
682 {
683     "_id" : ObjectId("60bb5830f5322caf711ed8b1"),
684     "S_id" : "S121",

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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" : [

```

```

746         "DBMS",
747         "Web Dev"
748     ]
749 }
750
751 -----
752 Use $gt, $gte, $lt
753
754 > db.Student.find({"Subjects.score":{$gt:90}}).pretty()
755 {
756     "_id" : ObjectId("60bb5739ae0512016f998c46"),
757     "S_id" : "S118",
758     "S_name" : "Maria Hernandez",
759     "Branch" : "Mech",
760     "Age" : 21,
761     "Panel" : "E",
762     "Address" : {
763         "Area" : "Swargate",
764         "City" : "Pune",
765         "Pincode" : 412303
766     },
767     "Subjects" : [
768         {
769             "sub_name" : "TOC",
770             "score" : 93
771         },
772         {
773             "sub_name" : "AI",
774             "score" : 91
775         }
776     ],
777     "Area_of_Interest" : [
778         "DBMS",
779         "Web Dev"
780     ]
781 }
782 >
783 >
784 > db.Student.find({"Subjects.score":{$lt:80}}).pretty()
785 {
786     "_id" : ObjectId("60bb5739ae0512016f998c41"),
787     "S_id" : "S113",
788     "S_name" : "Robert Smith",
789     "Branch" : "ECE",
790     "Age" : 21,
791     "Panel" : "A",
792     "Address" : {
793         "Area" : "Swargate",
794         "City" : "Pune",
795         "Pincode" : 412303
796     },
797     "Subjects" : [
798         {
799             "sub_name" : "AI",
800             "score" : 79
801         },
802         {
803             "sub_name" : "TOC",
804             "score" : 80
805         }
806     ],
807     "Area_of_Interest" : [
808         "DBMS",
809         "AI",
810         "ML",
811         "Networking"
812     ]
813 }
814

```

```

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 }

```

```

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     ],

```



```

1091     "Area_of_Interest" : [
1092         "Networking",
1093         "DWDM",
1094         "OS"
1095     ]
1096 }
1097 {
1098     "_id" : ObjectId("60bb5739ae0512016f998c46"),
1099     "S_id" : "S118",
1100     "S_name" : "Maria Hernandez",
1101     "Branch" : "Mech",
1102     "Age" : 21,
1103     "Panel" : "E",
1104     "Address" : {
1105         "Area" : "Swargate",
1106         "City" : "Pune",
1107         "Pincode" : 412303
1108     },
1109     "Subjects" : [
1110         {
1111             "sub_name" : "TOC",
1112             "score" : 93
1113         },
1114         {
1115             "sub_name" : "AI",
1116             "score" : 91
1117         }
1118     ],
1119     "Area_of_Interest" : [
1120         "DBMS",
1121         "Web Dev"
1122     ]
1123 }
1124 >
1125 >
1126 > db.Student.find({S_name:{$regex:/z$/}}).pretty()
1127 {
1128     "_id" : ObjectId("60bb5739ae0512016f998c44"),
1129     "S_id" : "S116",
1130     "S_name" : "Maria Rodriguez",
1131     "Branch" : "CSE",
1132     "Age" : 21,
1133     "Panel" : "A",
1134     "Address" : {
1135         "Area" : "Sangamvadi",
1136         "City" : "Pune",
1137         "Pincode" : 412311
1138     },
1139     "Subjects" : [
1140         {
1141             "sub_name" : "IS",
1142             "score" : 72
1143         },
1144         {
1145             "sub_name" : "TOC",
1146             "score" : 75
1147         }
1148     ],
1149     "Area_of_Interest" : [
1150         "Networking",
1151         "DWDM",
1152         "OS"
1153     ]
1154 }
1155 {
1156     "_id" : ObjectId("60bb5739ae0512016f998c46"),
1157     "S_id" : "S118",
1158     "S_name" : "Maria Hernandez",
1159     "Branch" : "Mech",

```

```

1160         "Age" : 21,
1161         "Panel" : "E",
1162         "Address" : {
1163             "Area" : "Swargate",
1164             "City" : "Pune",
1165             "Pincode" : 412303
1166         },
1167         "Subjects" : [
1168             {
1169                 "sub_name" : "TOC",
1170                 "score" : 93
1171             },
1172             {
1173                 "sub_name" : "AI",
1174                 "score" : 91
1175             }
1176         ],
1177         "Area_of_Interest" : [
1178             "DBMS",
1179             "Web Dev"
1180         ]
1181     }
1182
1183 -----
1184 Total number od Doc
1185 > db.Student.count()
1186 8
1187
1188 -----
1189 Doc with Area_of_Interest having four value
1190 > db.Student.find({Area_of_Interest:{$size:4}}).pretty()
1191 {
1192   "_id" : ObjectId("60bb5739ae0512016f998c41"),
1193   "S_id" : "S113",
1194   "S_name" : "Robert Smith",
1195   "Branch" : "ECE",
1196   "Age" : 21,
1197   "Panel" : "A",
1198   "Address" : {
1199     "Area" : "Swargate",
1200     "City" : "Pune",
1201     "Pincode" : 412303
1202   },
1203   "Subjects" : [
1204     {
1205       "sub_name" : "AI",
1206       "score" : 79
1207     },
1208     {
1209       "sub_name" : "TOC",
1210       "score" : 80
1211     }
1212   ],
1213   "Area_of_Interest" : [
1214     "DBMS",
1215     "AI",
1216     "ML",
1217     "Networking"
1218   ]
1219 }
1220
1221 -----
1222 Display only name
1223 > db.Student.find({}, {_id:0,S_name:1}).pretty()
1224 { "S_name" : "James Smith" }
1225 { "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",

```

```

1367         "score" : 90
1368     },
1369     {
1370         "sub_name" : "AI",
1371         "score" : 82
1372     }
1373 ],
1374 "Area_of_Interest" : [
1375     "DBMS",
1376     "Networking"
1377 ]
1378 }
1379 {
1380     "_id" : ObjectId("60bb5715ae0512016f998c3f"),
1381     "S_id" : "S111",
1382     "S_name" : "James Smith",
1383     "Branch" : "Mech",
1384     "Age" : 22,
1385     "Panel" : "E",
1386     "Address" : {
1387         "Area" : "Hadapsar",
1388         "Pincode" : 412312
1389     },
1390     "Subjects" : [
1391         {
1392             "sub_name" : "TOC",
1393             "score" : 81
1394         }
1395     ],
1396     "Area_of_Interest" : [
1397         "DBMS",
1398         "Networking",
1399         "NLP"
1400     ]
1401 }
1402 {
1403     "_id" : ObjectId("60bb5739ae0512016f998c43"),
1404     "S_id" : "S115",
1405     "S_name" : "David Smith",
1406     "Branch" : "ECE",
1407     "Age" : 20,
1408     "Panel" : "A",
1409     "Address" : {
1410         "Area" : "Kothrud",
1411         "City" : "Pune",
1412         "Pincode" : 412300
1413     },
1414     "Subjects" : [
1415         {
1416             "sub_name" : "TOC",
1417             "score" : 78
1418         },
1419         {
1420             "sub_name" : "AI",
1421             "score" : 80
1422         }
1423     ],
1424     "Area_of_Interest" : [
1425         "AI",
1426         "DS"
1427     ]
1428 }
1429 {
1430     "_id" : ObjectId("60bb5830f5322caf711ed8b1"),
1431     "S_id" : "S121",
1432     "Branch" : "CSE",
1433     "Panel" : "A"
1434 }
1435

```

```

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         }

```

```

1574 ],
1575 "Area_of_Interest" : [
1576     "DBMS",
1577     "AI",
1578     "ML"
1579 ]
1580 }
1581 {
1582     "_id" : ObjectId("60bb5739ae0512016f998c41"),
1583     "S_id" : "S113",
1584     "S_name" : "Robert Smith",
1585     "Branch" : "ECE",
1586     "Age" : 21,
1587     "Panel" : "A",
1588     "Address" : {
1589         "Area" : "Swargate",
1590         "City" : "Pune",
1591         "Pincode" : 412303
1592     },
1593     "Subjects" : [
1594         {
1595             "sub_name" : "AI",
1596             "score" : 79
1597         },
1598         {
1599             "sub_name" : "TOC",
1600             "score" : 80
1601         }
1602     ],
1603     "Area_of_Interest" : [
1604         "DBMS",
1605         "AI",
1606         "ML",
1607         "Networking"
1608     ]
1609 }
1610 {
1611     "_id" : ObjectId("60bb5739ae0512016f998c42"),
1612     "S_id" : "S114",
1613     "S_name" : "Maria Garcia",
1614     "Branch" : "MECH",
1615     "Age" : 21,
1616     "Panel" : "A",
1617     "Address" : {
1618         "Area" : "Shivajinagar",
1619         "City" : "Pune",
1620         "Pincode" : 412307
1621     },
1622     "Subjects" : [
1623         {
1624             "sub_name" : "IS",
1625             "score" : 90
1626         },
1627         {
1628             "sub_name" : "AI",
1629             "score" : 82
1630         }
1631     ],
1632     "Area_of_Interest" : [
1633         "DBMS",
1634         "Networking"
1635     ]
1636 }
1637 {
1638     "_id" : ObjectId("60bb5739ae0512016f998c43"),
1639     "S_id" : "S115",
1640     "S_name" : "David Smith",
1641     "Branch" : "ECE",
1642     "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

```

```

1712         }
1713     ],
1714     "Area_of_Interest" : [
1715         "DBMS",
1716         "Web Dev"
1717     ]
1718 }
1719 {
1720     "_id" : ObjectId("60bb5830f5322caf711ed8b1"),
1721     "S_id" : "S121",
1722     "Branch" : "CSE",
1723     "Panel" : "A"
1724 }
1725
1726
1727 -----
1728 Display only two documents
1729 > db.Student.find().pretty().limit(2)
1730 {
1731     "_id" : ObjectId("60bb5715ae0512016f998c3f"),
1732     "S_id" : "S111",
1733     "S_name" : "James Smith",
1734     "Branch" : "Mech",
1735     "Age" : 22,
1736     "Panel" : "E",
1737     "Address" : {
1738         "Area" : "Hadapsar",
1739         "Pincode" : 412312
1740     },
1741     "Subjects" : [
1742         {
1743             "sub_name" : "TOC",
1744             "score" : 81
1745         }
1746     ],
1747     "Area_of_Interest" : [
1748         "DBMS",
1749         "Networking",
1750         "NLP"
1751     ]
1752 }
1753 {
1754     "_id" : ObjectId("60bb5739ae0512016f998c40"),
1755     "S_id" : "S112",
1756     "S_name" : "Michael Smith",
1757     "Branch" : "CSE",
1758     "Age" : 20,
1759     "Panel" : "E",
1760     "Address" : {
1761         "Area" : "ShivTirth",
1762         "City" : "Pune",
1763         "Pincode" : 412301
1764     },
1765     "Subjects" : [
1766         {
1767             "sub_name" : "DBMS",
1768             "score" : 81
1769         },
1770         {
1771             "sub_name" : "IS",
1772             "score" : 83
1773         }
1774     ],
1775     "Area_of_Interest" : [
1776         "DBMS",
1777         "AI",
1778         "ML"
1779     ]
1780 }

```

```

1781
1782
1783 -----
1784 Query using all operation
1785 > db.Student.find({Area_of_Interest:{$all:["DBMS","ML"]}}).pretty()
1786 {
1787     "_id" : ObjectId("60bb5739ae0512016f998c40"),
1788     "S_id" : "S112",
1789     "S_name" : "Michael Smith",
1790     "Branch" : "CSE",
1791     "Age" : 20,
1792     "Panel" : "E",
1793     "Address" : {
1794         "Area" : "ShivTirth",
1795         "City" : "Pune",
1796         "Pincode" : 412301
1797     },
1798     "Subjects" : [
1799         {
1800             "sub_name" : "DBMS",
1801             "score" : 81
1802         },
1803         {
1804             "sub_name" : "IS",
1805             "score" : 83
1806         }
1807     ],
1808     "Area_of_Interest" : [
1809         "DBMS",
1810         "AI",
1811         "ML"
1812     ]
1813 }
1814 {
1815     "_id" : ObjectId("60bb5739ae0512016f998c41"),
1816     "S_id" : "S113",
1817     "S_name" : "Robert Smith",
1818     "Branch" : "ECE",
1819     "Age" : 21,
1820     "Panel" : "A",
1821     "Address" : {
1822         "Area" : "Swargate",
1823         "City" : "Pune",
1824         "Pincode" : 412303
1825     },
1826     "Subjects" : [
1827         {
1828             "sub_name" : "AI",
1829             "score" : 79
1830         },
1831         {
1832             "sub_name" : "TOC",
1833             "score" : 80
1834         }
1835     ],
1836     "Area_of_Interest" : [
1837         "DBMS",
1838         "AI",
1839         "ML",
1840         "Networking"
1841     ]
1842 }
1843 >
1844
1845
1846 -----
1847
1848 Drop Document
1849

```

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