

MONGODB PROJECT

INTERMIDATE SECTION

Data set

```
{
  _id: 1,
  usn: "4AD24CD011",
  results_marks: [82, 85, 89]
}
{
  _id: 2,
  usn: "4AD24CD041",
  results_marks: [75, 87, 99]
}
{
  _id: 3,
  usn: "4AD24CD070",
  results_marks: [95, 88, 78]
}
{
  _id: 4,
  usn: "4AD24CD088",
  results_marks: [82, 75, 96]
}
>use intermidate
```

```
>db.students.insertMany([
  {
    _id: 1,
    usn: "4AD24CD011",
    results_marks: [82, 85, 89]
  },
  {
    _id: 2,
    usn: "4AD24CD041",
    results_marks: [75, 87, 99]
  },
  {
    _id: 3,
    usn: "4AD24CD070",
    results_marks: [95, 88, 78]
  },
  {
    _id: 4,
    usn: "4AD24CD088",
    results_marks: [82, 75, 96]
  }
]);
```

```
mongodbs • JS use('intermidate'); c:\Users\Prabha\playground-2.mongodbs • ... {} Playground Result X
1 use('intermidate');
2
3
4 db.students.insertMany([
5   { _id: 1, usn: "4AD24CD011", results_marks: [82, 85],
6   { _id: 2, usn: "4AD24CD041", results_marks: [75, 87],
7   { _id: 3, usn: "4AD24CD070", results_marks: [95, 88],
8   { _id: 4, usn: "4AD24CD088", results_marks: [82, 75]
9 ]});

2 "acknowledged": true,
3 "insertedIds": {
4   "0": 1,
5   "1": 2,
6   "2": 3,
7   "3": 4
8 }
9 }
```

1) Demonstrate Working Of \$elemMatch

>db.students.find({ results_marks: { \$elemMatch: { \$gt: 90 } } });

```
JS use('intermidate'); c:\Users\Prabha\playground-2.mongodbs • ... {} Playground Result X
1 use('intermidate');
2
3
4 db.students.find({ results_marks: { $elemMatch: { $gt:
5
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1 [
2   {
3     "_id": 2,
4     "usn": "4AD24CD041",
5     "results_marks": [
6       75,
7       87,
8       99
9     ]
10  },
11  {
12    "_id": 3,
13    "usn": "4AD24CD070",
14    "results_marks": [
15      95,
16      88,
17      78
18    ]
19  },
20  {
21    "_id": 4,
22    "usn": "4AD24CD088",
23    "results_marks": [
24      82,
25      75,
26      96
27    ]
28  }
29 ]
```

2) Demonstrate Working of \$elemMatch,Search Marks 82,96 In

Results_Marks Array Using IN Operator if Matches Return Matching Records

>db.students.find({ results_marks: { \$in: [82, 96] } });

```
JS use('intermidate'); c:\Users\Prabha\playground-2.mongodbs • ▶ □ ... {} Playground Result X
  Connected to localhost27017
1 use('intermidate');
2
3
4 db.students.find({ results_marks: { $in: [82, 96] } })
5

[
  {
    "_id": 1,
    "usn": "4AD24CD011",
    "results_marks": [
      82,
      85,
      89
    ]
  },
  {
    "_id": 4,
    "usn": "4AD24CD088",
    "results_marks": [
      82,
      75,
      96
    ]
  }
]
```

3) Demonstrate Working of \$elemMatch, Search Marks Such That Marks >80 And Marks <=82 In Results_Marks Array If Matches Return Matching Records

>db.students.find({ results_marks: { \$elemMatch: { \$gt: 80, \$lte: 82 } } });

```
mongodbs • JS use('intermidate'); c:\Users\Prabha\playground-2.mongodbs • ... {} Playground Result X
  Connected to localhost27017 use('intermidate'); c:\Users\Prabha\playground-2.mongodbs
1 use('intermidate');
2
3
4 db.students.find({ results_marks: { $elemMatch: { $gt:
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

[
  {
    "_id": 1,
    "usn": "4AD24CD011",
    "results_marks": [
      82,
      85,
      89
    ]
  },
  {
    "_id": 4,
    "usn": "4AD24CD088",
    "results_marks": [
      82,
      75,
      96
    ]
  }
]
```