

MONGO DB : REPORT 6

PROJECTION OPERATORS->

Downloading new dataset :

- Create a new collection called – stud
- Upload the dataset with the below link
- <https://drive.google.com/file/d/1CluFaEuWNge8bHffYIJH4ebzLgLSv4IN/view>

Example:

```
test> db.stud.find({}, {name:1, age:1, gpa:1}).count();  
12  
test>
```

Excluding Fields:

```
test> db.stud.find({}, {_id:0, courses:0}).count();  
12  
test>
```

```
test> db.stud.find({}, {name:1, age:1, gpa:1});
[
  {
    _id: ObjectId('665f367236cc83d394ce92dd'),
    name: 'Alice Smith',
    age: 20,
    gpa: 3.4
  },
  {
    _id: ObjectId('665f367236cc83d394ce92de'),
    name: 'Bob Johnson',
    age: 22,
    gpa: 3.8
  },
  {
    _id: ObjectId('665f367236cc83d394ce92df'),
    name: 'Charlie Lee',
    age: 19,
    gpa: 3.2
  },
  {
    _id: ObjectId('665f367236cc83d394ce92e0'),
    name: 'Emily Jones',
    age: 21,
    gpa: 3.6
  },
  {
    _id: ObjectId('665f367236cc83d394ce92e1'),
    name: 'David Williams',
    age: 23,
    gpa: 3
  },
  {
    _id: ObjectId('665f367236cc83d394ce92e2'),
    name: 'Fatima Brown',
    age: 18,
    gpa: 3.5
  },
  {
    _id: ObjectId('665f367236cc83d394ce92e3'),
    name: 'Gabriel Miller',
    age: 24,
    gpa: 3.9
  },
  {
    _id: ObjectId('665f367236cc83d394ce92e4'),
    name: 'Hannah Garcia',
    age: 20,
    gpa: 3.3
  },
  {
    _id: ObjectId('665f367236cc83d394ce92e5'),
    name: 'Isaac Clark',
    age: 22,
    gpa: 3.7
  },
  {
    _id: ObjectId('665f367236cc83d394ce92e6'),
    name: 'Jessica Moore',
    age: 19,
    gpa: 3.1
  },
  {
    _id: ObjectId('665f367236cc83d394ce92e7'),
    name: 'Kevin Lewis',
    age: 21,
    gpa: 4
  },
  {
    _id: ObjectId('665f367236cc83d394ce92e8'),
    name: 'Lily Robinson',
    age: 23,
    gpa: 3.5
  }
]
test>
```

\$elemMatch:

- Use this given below link to download the dataset.
- <https://drive.google.com/file/d/1CluFaEuWNge8bHffYIJH4ebzLgLSv4IN/view>
- The \$elemMatch operator limits the contents of an <array> field from the query results to contain only the first element matching the \$elemMatch condition.
- Regardless of the ordering or the fields in the document, \$elemMatch projection of an existing field returns the field after the other existing field inclusions.
- For example, consider a players collection with the following document:

```
db.players.insertOne( {  
  name: "player1",  
  games: [ { game: "abc", score: 8 }, { game: "xyz", score:  
5 } ],  
  joined: new Date("2020-01-01"), lastLogin:  
new Date("2020-05-01")  
} )
```

```
test> db.players.insertOne( {  
...   name: "player1",  
...   games: [ { game: "abc", score: 8 }, { game: "xyz", score: 5 } ],  
...   joined: new Date("2020-01-01"),  
...   lastLogin: new Date("2020-05-01")  
... } )  
{  
  acknowledged: true,  
  insertedId: ObjectId('6668896c89497863edcdcdf6')  
}  
test>
```