PROJECTION

DOWNLOADING NEW DATA SET:

- Create new collection called stud.
- Upload the dataset link

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('665f367236cc83d394ce92el'),
    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: To download data set click this link

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 of the fields in the document, the \$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:
   } ],
   joined: new Date("2020-01-01"),
   lastLogin: new Date("2020-05-01")
} )
```

The following projection returns the games field after the other existing fields included in the projection even though in the document, the field is listed before joined and lastLogin fields: