

```
>_MONGOSH
> use students
< switched to db students
> db.students.insertOne({
  ...
  name: "Rahul",
  age: 21,
  course: "Computer Science",
  marks: 85,
  city: "Bengaluru"
});
< {
  acknowledged: true,
  insertedId: ObjectId('692971fb7f316400c3d633b1')
}
> db.students.insertMany([
  { name: "Anita", age: 22, course: "Mathematics", marks: 90 },
  { name: "Vikram", age: 20, course: "Physics", marks: 78 }
]);
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('6929720e7f316400c3d633b2'),
    '1': ObjectId('6929720e7f316400c3d633b3')
  }
}
> db.students.find();
< [
  {
    _id: ObjectId('692971fb7f316400c3d633b1'),
    name: 'Rahul',
    age: 21,
    course: 'Computer Science',
    marks: 85,
    city: 'Bengaluru'
  }
  {
    _id: ObjectId('6929720e7f316400c3d633b2'),
    name: 'Anita',
    age: 22,
```

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>_MONGOSH
{
  ...
  _id: ObjectId('6929720e7f316400c3d633b2'),
  name: 'Anita',
  ...
  age: 22,
  course: 'Mathematics',
  marks: 90
}
...
{
  ...
  _id: ObjectId('6929720e7f316400c3d633b3'),
  name: 'Vikram',
  ...
  age: 20,
  course: 'Physics',
  marks: 78
}
> db.students.find({ marks: { $gt: 80 } });
< [
  {
    ...
    _id: ObjectId('692971fb7f316400c3d633b1'),
    name: 'Rahul',
    ...
    age: 21,
    course: 'Computer Science',
    marks: 85,
    city: 'Bengaluru'
  }
]
{
  ...
  _id: ObjectId('6929720e7f316400c3d633b2'),
  name: 'Anita',
  ...
  age: 22,
  course: 'Mathematics',
  marks: 90
}
> db.students.find({name:{$in:["Rahul","Anita"]}});
< [
  {
    ...
    _id: ObjectId('692971fb7f316400c3d633b1'),
    name: 'Rahul',
    ...
    age: 21,
    course: 'Computer Science',
    marks: 85,
    city: 'Bengaluru'
```

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>_MONGOSH
{
  > db.students.find({name:{$in:["Rahul","Anita"]}});
< [
  {
    _id: ObjectId('692971fb7f316400c3d633b1'),
    name: 'Rahul',
    age: 21,
    course: 'Computer Science',
    marks: 85,
    city: 'Bengaluru'
  },
  {
    _id: ObjectId('6929720e7f316400c3d633b2'),
    name: 'Anita',
    age: 22,
    course: 'Mathematics',
    marks: 90
  }
]
> db.students.aggregate([
  { $group: { _id: "$city", total: { $sum: 1 } } }
]);
< [
  {
    _id: null,
    total: 2
  },
  {
    _id: 'Bengaluru',
    total: 1
  }
]
> db.students.aggregate([
  { $group: { _id: "$course", avgMarks: { $avg: "$marks" } } }
]);
< [
  {
    _id: 'Mathematics',
    avgMarks: 90
  },
  {
    _id: 'Computer Science',
    avgMarks: 87.5
  }
]
```

```
>_MONGOSH
> db.students.aggregate([
  { $group: { _id: "$city", total: { $sum: 1 } } }
])
< [
  {
    _id: null,
    total: 2
  }
]
{
  _id: 'Bengaluru',
  total: 1
}
> db.students.aggregate([
  { $group: { _id: "$course", avgMarks: { $avg: "$marks" } } }
])
< [
  {
    _id: 'Mathematics',
    avgMarks: 90
  }
]
{
  _id: 'Computer Science',
  avgMarks: 85
}
{
  _id: 'Physics',
  avgMarks: 78
}
> db.students.insertMany([
  { name: "mahi", age: 25, course: "Mathematics", marks: 45 },
  { name: "Vineet", age: 26, course: "chemistry", marks: 60 }
])
< [
  {
    acknowledged: true,
    insertedIds: {
      '0': ObjectId('692974897f316400c3d633b4'),
      '1': ObjectId('692974897f316400c3d633b5')
    }
  }
]
students> |
```