```
college> use univ
switched to db univ
univ> db.createCollection("s1mca")
{ ok: 1 }
univ> db.s1mca.insert({roll:1,name:'Akash',age:21,div:"A",sub:['AOS','ADBMS']})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('6613b02c94d143be678bf205') }
}
univ> db.s1mca.remove()
DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.
MongoshInvalidInputError: [COMMON-10001] Missing required argument at position 0 (Collection.remove)
univ> db.s1mca.remove({})
{ acknowledged: true, deletedCount: 1 }
univ> db.s1mca.insert({roll:1,name:'Akash',age:21,gender:'Male',div:"A",sub:['AOS','ADBMS']})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('6613b0d094d143be678bf206') }
}
univ> db.s1mca.insert({roll:2,name:'Anjana',age:23,gender:'Female',div:"B",sub:['ADBMS','ACN']})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('6613b0fa94d143be678bf207') }
}
univ> db.s1mca.insert({roll:3,name:'Arjun',age:20,gender:'Male',div:"A",sub:['ADBMS','ACN']})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('6613b11294d143be678bf208') }
}
univ> db.s1mca.insert({roll:4,name:'John',age:26,gender:'Male',div:"C",sub:['ADBMS','IPR']})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('6613b12894d143be678bf209') }
}
univ> db.s1mca.insert({roll:5,name:'Aswin',age:22,gender:'Male',div:"C",sub:['ADBMS','IPR']})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('6613b14294d143be678bf20a') }
}
univ> db.s1mca.insert({roll:5,name:'Sneha',age:19,gender:'Female',div:"A",sub:['AOS','IPR']})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('6613b15e94d143be678bf20b') }
}
```

```
univ> db.s1mca.find()
[
  {
    _id: ObjectId('6613b0d094d143be678bf206'),
    roll: 1,
    name: 'Akash',
    age: 21,
    gender: 'Male',
    div: 'A',
    sub: [ 'AOS', 'ADBMS' ]
  },
  {
    _id: ObjectId('6613b0fa94d143be678bf207'),
    roll: 2,
    name: 'Anjana',
    age: 23,
    gender: 'Female',
    div: 'B',
    sub: [ 'ADBMS', 'ACN' ]
  },
  {
    _id: ObjectId('6613b11294d143be678bf208'),
    roll: 3,
    name: 'Arjun',
    age: 20,
    gender: 'Male',
    div: 'A',
    sub: [ 'ADBMS', 'ACN' ]
  },
  {
    _id: ObjectId('6613b12894d143be678bf209'),
    roll: 4,
    name: 'John',
    age: 26,
    gender: 'Male',
    div: 'C',
    sub: [ 'ADBMS', 'IPR' ]
  },
  {
    _id: ObjectId('6613b14294d143be678bf20a'),
    roll: 5,
    name: 'Aswin',
    age: 22,
    gender: 'Male',
    div: 'C',
    sub: [ 'ADBMS', 'IPR' ]
  },
  {
    _id: ObjectId('6613b15e94d143be678bf20b'),
    roll: 5,
    name: 'Sneha',
    age: 19,
```

```
},
{
  _id: ObjectId('6613b15e94d143be678bf20b'),
  roll: 5,
  name: 'Sneha',
  age: 19,
  gender: 'Female',
  div: 'A',
  sub: [ 'AOS', 'IPR' ]
}
]
```

```
univ> db.s1mca.find({gender:'Male'})
[
  {
    _id: ObjectId('6613b0d094d143be678bf206'),
    roll: 1,
    name: 'Akash',
    age: 21,
    gender: 'Male',
    div: 'A',
    sub: [ 'AOS', 'ADBMS' ]
  },
  {
    _id: ObjectId('6613b11294d143be678bf208'),
    roll: 3,
    name: 'Arjun',
    age: 20,
    gender: 'Male',
    div: 'A',
    sub: [ 'ADBMS', 'ACN' ]
  },
  {
    _id: ObjectId('6613b12894d143be678bf209'),
    roll: 4,
    name: 'John',
    age: 26,
    gender: 'Male',
    div: 'C',
    sub: [ 'ADBMS', 'IPR' ]
  },
  {
    _id: ObjectId('6613b14294d143be678bf20a'),
    roll: 5,
    name: 'Aswin',
    age: 22,
    gender: 'Male',
    div: 'C',
    sub: [ 'ADBMS', 'IPR' ]
  }
]
```

```
univ> db.s1mca.find({gender:'Female'})
[
  {
    _id: ObjectId('6613b0fa94d143be678bf207'),
    roll: 2,
    name: 'Anjana',
    age: 23,
    gender: 'Female',
    div: 'B',
    sub: [ 'ADBMS', 'ACN' ]
  },
  {
    _id: ObjectId('6613b15e94d143be678bf20b'),
    roll: 5,
    name: 'Sneha',
    age: 19,
    gender: 'Female',
    div: 'A',
    sub: [ 'AOS', 'IPR' ]
  }
]
univ> db.s1mca.aggregate([{$group:{_id:'$div',toatal_students:{$sum:1}}}])
[
  { _id: 'A', toatal_students: 3 },
  { _id: 'B', toatal_students: 1 },
  { _id: 'C', toatal_students: 2 }
]
univ> db.s1mca.aggregate([{$match:{gender:'Male'}},{$group:{_id:'$div',total_malestd:{$sum:1}}}])
[ { _id: 'C', total_malestd: 2 }, { _id: 'A', total_malestd: 2 } ]
```

```
univ> db.s1mca.aggregate([{$group:{_id:'$div',avg_age:{$avg:'$age'}}}])
[
  { _id: 'C', avg_age: 24 },
  { _id: 'A', avg_age: 20 },
  { _id: 'B', avg_age: 23 }
]
```