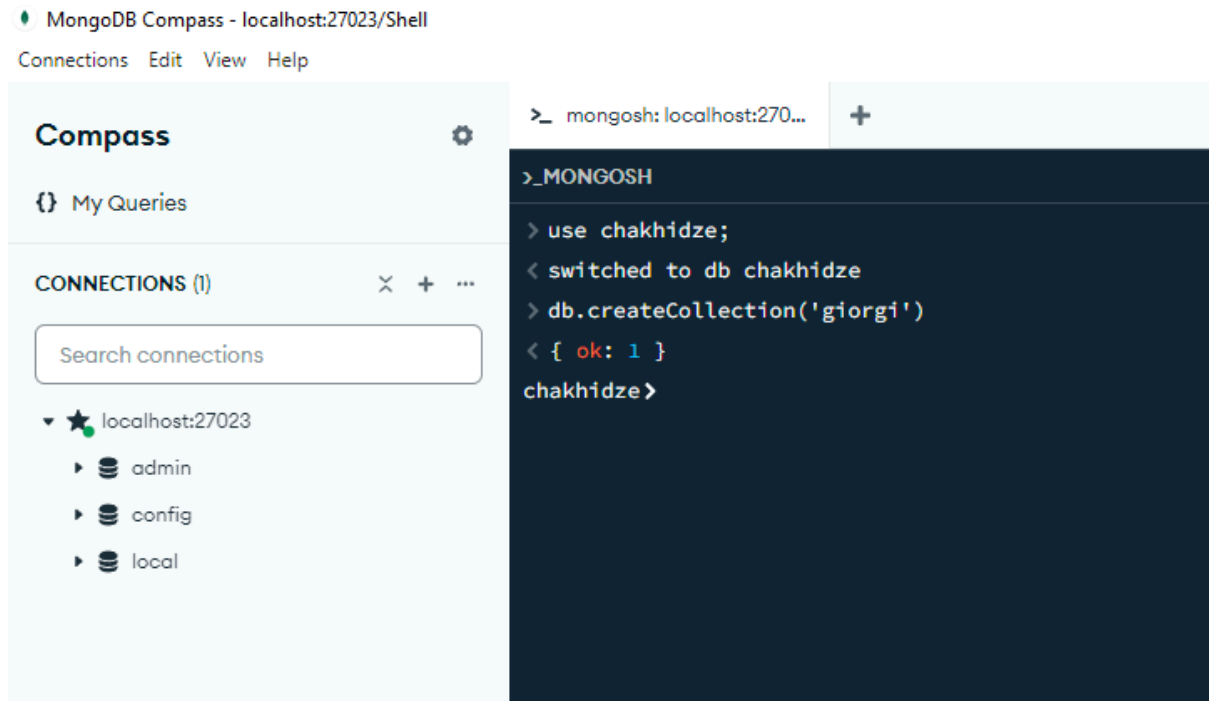


1.

```
use chakhidze;  
db.createCollection('giorgi')
```



2.

```
db.giorgi.insertMany([  
  {  
    "StudID": 1,  
    "First_Name": "giorgi",  
    "Last_Name": "chakhidze",  
    "CityofRegistration": "Tbilisi",  
    "Course": {  
      "CourseID": 101,  
      "CourseName": "Programming",  
      "Points": 5  
    },  
    "Zip": 0105,  
    "Address": {  
      "Street": "Rustaveli",  
      "HouseNr": 20  
    }  
  },  
  {  
    "StudID": 2,  
    "First_Name": "giorgi",  
    "Last_Name": "chakhvadze",  
    "CityofRegistration": "Zugdidi",  
    "Course": {  
      "CourseID": 102,  

```

```
"CourseName": "Database Management",
"Points": 6
},
"Zip": 2100,
"Address": {
  "Street": "Kostava",
  "HouseNr": 15
},
},
{
  "StudID": 3,
  "First_Name": "giorgi",
  "Last_Name": "chikhradze",
  "CityofRegistration": "Kutaisi",
  "Course": {
    "CourseID": 103,
    "CourseName": "Mathematics",
    "Points": 4
  }
},
{
  "StudID": 4,
  "First_Name": "giorgi",
  "Last_Name": "chkhaidze",
  "CityofRegistration": "Batumi",
  "Course": {
    "CourseID": 104,
    "CourseName": "Programming",
    "Points": 5
  }
},
{
  "StudID": 5,
  "First_Name": "giorgi",
  "Last_Name": "chkhartishvili",
  "CityofRegistration": "Tbilisi",
  "Course": {
    "CourseID": 105,
    "CourseName": "Database Management",
    "Points": 6
  }
},
{
  "StudID": 6,
  "First_Name": "giorgi",
  "Last_Name": "chimakadze",
  "CityofRegistration": "Zugdidi",
  "Course": {
    "CourseID": 106,
    "CourseName": "Statistics",
    "Points": 3
  }
}
```

```
},
{
  "StudID": 7,
  "First_Name": "giorgi",
  "Last_Name": "chalamberidze",
  "CityofRegistration": "Batumi",
  "Course": {
    "CourseID": 107,
    "CourseName": "Physics",
    "Points": 4
  },
  "Zip": 6010,
  "Address": {
    "Street": "Chavchavadze",
    "HouseNr": 8
  }
}
])
```

## Compass

{ } My Queries

CONNECTIONS (1)

Search connections

★ localhost:27023

▶ admin

▶ config

▶ local

&gt; mongosh: localhost:270...

+

&gt;\_MONGOSH

```
},
{
  "StudID": 5,
  "First_Name": "giorgi",
  "Last_Name": "chkhartishvili",
  "CityofRegistration": "Tbilisi",
  "Course": {
    "CourseID": 105,
    "CourseName": "Database Management",
    "Points": 6
  }
},
{
  "StudID": 6,
  "First_Name": "giorgi",
  "Last_Name": "chimakadze",
  "CityofRegistration": "Zugdidi",
  "Course": {
    "CourseID": 106,
    "CourseName": "Statistics",
    "Points": 3
  }
},
{
  "StudID": 7,
  "First_Name": "giorgi",
  "Last_Name": "chalamberidze",
  "CityofRegistration": "Batumi",
  "Course": {
    "CourseID": 107,
    "CourseName": "Physics",
    "Points": 4
  },
  "Zip": 6010,
  "Address": {
    "Street": "Chavchavadze",
    "HouseNr": 8
  }
}
})
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('670fd9bb9ec23fa1c8eb6464'),
    '1': ObjectId('670fd9bb9ec23fa1c8eb6465'),
    '2': ObjectId('670fd9bb9ec23fa1c8eb6466'),
    '3': ObjectId('670fd9bb9ec23fa1c8eb6467'),
    '4': ObjectId('670fd9bb9ec23fa1c8eb6468'),
    '5': ObjectId('670fd9bb9ec23fa1c8eb6469'),
    '6': ObjectId('670fd9bb9ec23fa1c8eb646a')
  }
}
chakhidze>
```

```
3. db.giorgi.updateMany(  
  { "Course.Points": { $gt: 90 } },  
  { $set: { "Grade": "A" } }  
);
```

```
db.giorgi.updateMany(  
  { "Course.Points": { $gt: 80, $lte: 90 } },  
  { $set: { "Grade": "B" } }  
);
```

```
db.giorgi.updateMany(  
  { "Course.Points": { $gt: 70, $lte: 80 } },  
  { $set: { "Grade": "C" } }  
);
```

```
db.giorgi.updateMany(  
  { "Course.Points": { $gt: 60, $lte: 70 } },  
  { $set: { "Grade": "D" } }  
);
```

```
db.giorgi.updateMany(  
  { "Course.Points": { $gt: 50, $lte: 60 } },  
  { $set: { "Grade": "E" } }  
);
```

```
db.giorgi.updateMany(  
  { "Course.Points": { $gt: 40, $lte: 50 } },  
  { $set: { "Grade": "FX" } }  
);
```

```
db.giorgi.updateMany(  
  { "Course.Points": { $lte: 40 } },  
  { $set: { "Grade": "F" } }  
);
```

```
db.giorgi.find()
```

## Compass

{ } My Queries

CONNECTIONS (1)

Search connections

▼ ★ localhost:27023

- ▶ admin
- ▶ config
- ▶ local

mongosh: localhost:270...



&gt; \_MONGOSH

&gt;

```
db.giorgi.updateMany(
  { "Course.Points": { $gt: 90 } },
  { $set: { "Grade": "A" } }
);

db.giorgi.updateMany(
  { "Course.Points": { $gt: 80, $lte: 90 } },
  { $set: { "Grade": "B" } }
);

db.giorgi.updateMany(
  { "Course.Points": { $gt: 70, $lte: 80 } },
  { $set: { "Grade": "C" } }
);

db.giorgi.updateMany(
  { "Course.Points": { $gt: 60, $lte: 70 } },
  { $set: { "Grade": "D" } }
);

db.giorgi.updateMany(
  { "Course.Points": { $gt: 50, $lte: 60 } },
  { $set: { "Grade": "E" } }
);

db.giorgi.updateMany(
  { "Course.Points": { $gt: 40, $lte: 50 } },
  { $set: { "Grade": "FX" } }
);

db.giorgi.updateMany(
  { "Course.Points": { $lte: 40 } },
  { $set: { "Grade": "F" } }
);
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 7,
  modifiedCount: 7,
  upsertedCount: 0
}
> db.giorgi.find()
< {
  _id: ObjectId('670fd9bb9ec23fal8eb6464'),
  StudID: 1,
  First_Name: 'giorgi',
  Last_Name: 'chakhidze',
  CityofRegistration: 'Tbilisi',
  Course: {
    CourseID: 101,
    CourseName: 'Programming',
    Points: 5
```

### Compass

{ } My Queries

CONNECTIONS (1)

- localhost:27023
  - admin
  - config
  - local

mongosh: localhost:270...

```
> _MONGOSH
> db.giorgi.find()
< {
  _id: ObjectId('670fd9bb9ec23fa1c8eb6464'),
  StudID: 1,
  First_Name: 'giorgi',
  Last_Name: 'chakhidze',
  CityofRegistration: 'Tbilisi',
  Course: {
    CourseID: 101,
    CourseName: 'Programming',
    Points: 5
  },
  Zip: 69,
  Address: {
    Street: 'Rustaveli',
    HouseNr: 20
  },
  Grade: 'F'
}
{
  _id: ObjectId('670fd9bb9ec23fa1c8eb6465'),
  StudID: 2,
  First_Name: 'giorgi',
  Last_Name: 'chakhvadze',
  CityofRegistration: 'Zugdidi',
  Course: {
    CourseID: 102,
    CourseName: 'Database Management',
    Points: 6
  },
  Zip: 2100,
  Address: {
    Street: 'Kostava',
    HouseNr: 15
  },
  Grade: 'F'
}
{
  _id: ObjectId('670fd9bb9ec23fa1c8eb6466'),
  StudID: 3,
  First_Name: 'giorgi',
  Last_Name: 'chikhradze',
  CityofRegistration: 'Kutaisi',
  Course: {
    CourseID: 103,
    CourseName: 'Mathematics',
    Points: 4
  },
  Grade: 'F'
}
{
  _id: ObjectId('670fd9bb9ec23fa1c8eb6467'),
  StudID: 4,
```

4. `db.giorgi.updateMany(`

```
{},
{
```

```
{ $set: { "Full_Name": { $concat: ["$First_Name", " ", "$Last_Name"] } } }
```

```
}
```

```
}
```

```
db.giorgi.find({}, { "First_Name": 1, "Last_Name": 1, "Full_Name": 1 }).pretty()
```

MongoDB Compass - localhost:27023/Shell

Connections Edit View Help

Compass

{ } My Queries

CONNECTIONS (1)

Search connections

localhost:27023

- admin
- config
- local

mongosh: localhost:270...

```
> _MONGOSH
> db.giorgi.updateMany(
  {},
  [
    { $set: { "Full_Name": { $concat: ["$First_Name", " ", "$Last_Name"] } } }
  ]
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 7,
  modifiedCount: 7,
  upsertedCount: 0
}
> db.giorgi.find({}, { "First_Name": 1, "Last_Name": 1, "Full_Name": 1 }).pretty()
< {
  _id: ObjectId('670fd9bb9ec23falc8eb6464'),
  First_Name: 'giorgi',
  Last_Name: 'chakhidze',
  Full_Name: 'giorgi chakhidze'
}
{
  _id: ObjectId('670fd9bb9ec23falc8eb6465'),
  First_Name: 'giorgi',
  Last_Name: 'chakhvadze',
  Full_Name: 'giorgi chakhvadze'
}
{
  _id: ObjectId('670fd9bb9ec23falc8eb6466'),
  First_Name: 'giorgi',
  Last_Name: 'chikhradze',
  Full_Name: 'giorgi chikhradze'
}
{
  _id: ObjectId('670fd9bb9ec23falc8eb6467'),
  First_Name: 'giorgi',
  Last_Name: 'chkhaidze',
  Full_Name: 'giorgi chkhaidze'
}
{
  _id: ObjectId('670fd9bb9ec23falc8eb6468'),
  First_Name: 'giorgi',
  Last_Name: 'chkhartishvili',
  Full_Name: 'giorgi chkhartishvili'
}
{
  _id: ObjectId('670fd9bb9ec23falc8eb6469'),
  First_Name: 'giorgi',
  Last_Name: 'chimakadze',
  Full_Name: 'giorgi chimakadze'
}
{
  _id: ObjectId('670fd9bb9ec23falc8eb646a'),
  First_Name: 'giorgi',
```

5. db.giorgi.find(

```
{
```

```
  "Grade": { $in: ["FX", "F"] },
```

```
  "CityofRegistration": "Batumi"
```

```
})
```

```
).pretty()
```



Compass

My Queries

CONNECTIONS (1)

Search connections

localhost:27023

admin

config

local

mongosh: localhost:270...

>\_MONGOSH

> db.giorgi.find(

{

"Grade": { \$in: ["FX", "F"] },

"CityofRegistration": "Batumi"

}

).pretty()

< {

\_id: ObjectId('670fd9bb9ec23fa1c8eb6467'),

StudID: 4,

First\_Name: 'giorgi',

Last\_Name: 'chkhaidze',

CityofRegistration: 'Batumi',

Course: {

CourseID: 104,

CourseName: 'Programming',

Points: 5

}

},

Grade: 'F',

Full\_Name: 'giorgi chkhaidze'

}

{

\_id: ObjectId('670fd9bb9ec23fa1c8eb646a'),

StudID: 7,

First\_Name: 'giorgi',

Last\_Name: 'chalamberidze',

CityofRegistration: 'Batumi',

Course: {

CourseID: 107,

CourseName: 'Physics',

Points: 4

}

},

Zip: 6010,

Address: {

Street: 'Chavchavadze',

HouseNr: 8

}

},

Grade: 'F',

Full\_Name: 'giorgi chalamberidze'

}

chakhidze>

```

6. db.giorgi.deleteMany(
{
  "Course.Points": { $gt: 86 },
  "CityofRegistration": "Zugdidi"
})

```

## Compass

{ } My Queries

CONNECTIONS (1)

Search connections

▼ ★ localhost:27023

- ▶ admin
- ▶ config
- ▶ local

➤ mongosh: localhost:270...



&gt; \_MONGOSH

```
> db.giorgi.find(
  {
    "Grade": { $in: ["FX", "F"] },
    "CityofRegistration": "Batumi"
  }
).pretty()
< {
  _id: ObjectId('670fd9bb9ec23fa1c8eb6467'),
  StudID: 4,
  First_Name: 'giorgi',
  Last_Name: 'chkhaidze',
  CityofRegistration: 'Batumi',
  Course: {
    CourseID: 104,
    CourseName: 'Programming',
    Points: 5
  },
  Grade: 'F',
  Full_Name: 'giorgi chkhaidze'
}
{
  _id: ObjectId('670fd9bb9ec23fa1c8eb646a'),
  StudID: 7,
  First_Name: 'giorgi',
  Last_Name: 'chalamberidze',
  CityofRegistration: 'Batumi',
  Course: {
    CourseID: 107,
    CourseName: 'Physics',
    Points: 4
  },
  Zip: 6010,
  Address: {
    Street: 'Chavchavadze',
    HouseNr: 8
  },
  Grade: 'F',
  Full_Name: 'giorgi chalamberidze'
}
> db.giorgi.deleteMany(
  {
    "Course.Points": { $gt: 86 },
    "CityofRegistration": "Zugdidi"
  }
)
< {
  acknowledged: true,
  deletedCount: 0
}
chakhidze>
```

```
7. db.giorgi.drop()  
db.dropDatabase()
```

## Compass

{ } My Queries

CONNECTIONS (1)

★ localhost:27023

- ▶ admin
- ▶ config
- ▶ local

&gt; mongosh: localhost:270...

+

&gt; \_MONGOSH

```
    "CityofRegistration": "Batumi"
  }
).pretty()
< {
  _id: ObjectId('670fd9bb9ec23fa1c8eb6467'),
  StudID: 4,
  First_Name: 'giorgi',
  Last_Name: 'chkhaidze',
  CityofRegistration: 'Batumi',
  Course: {
    CourseID: 104,
    CourseName: 'Programming',
    Points: 5
  },
  Grade: 'F',
  Full_Name: 'giorgi chkhaidze'
}
{
  _id: ObjectId('670fd9bb9ec23fa1c8eb646a'),
  StudID: 7,
  First_Name: 'giorgi',
  Last_Name: 'chalamberidze',
  CityofRegistration: 'Batumi',
  Course: {
    CourseID: 107,
    CourseName: 'Physics',
    Points: 4
  },
  Zip: 6010,
  Address: {
    Street: 'Chavchavadze',
    HouseNr: 8
  },
  Grade: 'F',
  Full_Name: 'giorgi chalamberidze'
}
> db.giorgi.deleteMany(
  {
    "Course.Points": { $gt: 86 },
    "CityofRegistration": "Zugdidi"
  }
)
< {
  acknowledged: true,
  deletedCount: 0
}
> db.giorgi.drop()
< true
> db.drop()
✖ ▶ TypeError: db.drop is not a function
> db.dropDatabase()
< { ok: 1, dropped: 'chakhidze' }
```