Connections   Edit   View   Help

mongosh: FacultySyste...   mongosh: FacultySyste...   +

>_MONGOSH

Compass

{} My Queries

CONNECTIONS (1)

Search connections

▼ 🖥 FacultySystemDB.
  ▼ 🛢 FacultySystemDB
      📁 student
  ▼ 🛢 FacultySystemV2
      📁 course
      📁 faculty
      📁 student
  ▼ 🛢 admin
  ▼ 🛢 config
  ▼ 🛢 local
      📁 startup_log

```
> use FacultySystemDB
< switched to db FacultySystemDB
> db.student.insertOne({
    FirstName: "Ahmed",
    LastName: "Ali",
    Age: 23,
    Faculty: {
      Name: "Engineering",
      Address: "Cairo"
    },
    Grades: [
      { CourseName: "Math", Grade: 50, Pass: false },
      { CourseName: "Physics", Grade: 70, Pass: true }
    ],
    IsFired: true
})

db.student.insertOne({
  FirstName: "Sara",
  LastName: "Youssef",
  Age: 22,
  Faculty: {
    Name: "Science",
    Address: "Alex"
  },
  Grades: [
    { CourseName: "Biology", Grade: 90, Pass: true },
    { CourseName: "Chemistry", Grade: 80, Pass: true }
  ],
```

MongoDB Compass - FacultySystemDB./Shell

Connections   Edit   View   Help

Compass

{} My Queries

CONNECTIONS (1)

Search connections

▼ 🖥 FacultySystemDB.
  ▼ 🗃 FacultySystemDB
      📁 student
  ▼ 🗃 FacultySystemV2
      📁 course
      📁 faculty
      📁 student
  ▼ 🗃 admin
  ▼ 🗃 config
  ▼ 🗃 local
      📁 startup_log

mongosh: FacultySyste...   mongosh: FacultySyste...

>_MONGOSH

```
      IsFired: false
})
< {
    acknowledged: true,
    insertedId: ObjectId('686e516f54122f74d3e898ea')
}
> db.student.insertMany([
    {
      FirstName: "Laila",
      LastName: "Kamal",
      Age: 24,
      Faculty: {
        Name: "FCI",
        Address: "Giza"
      },
      Grades: [
        { CourseName: "HTML", Grade: 95, Pass: true },
        { CourseName: "CSS", Grade: 85, Pass: true }
      ],
      IsFired: false
    }
])
< {
    acknowledged: true,
    insertedIds: {
      '0': ObjectId('686e518754122f74d3e898eb')
    }
}
> db.student.find()
```
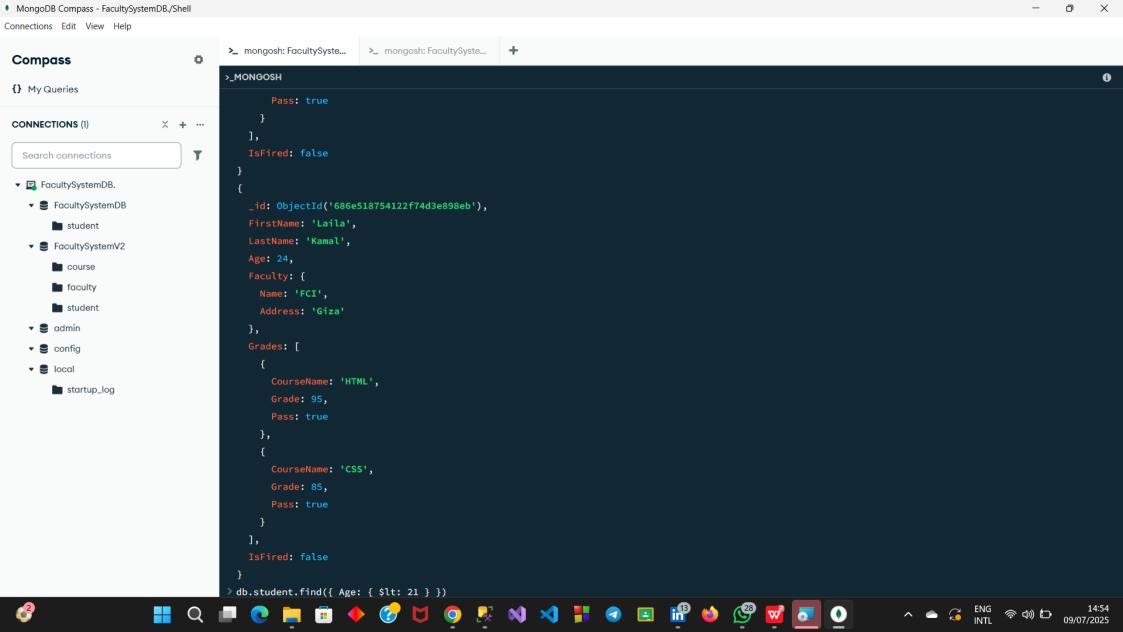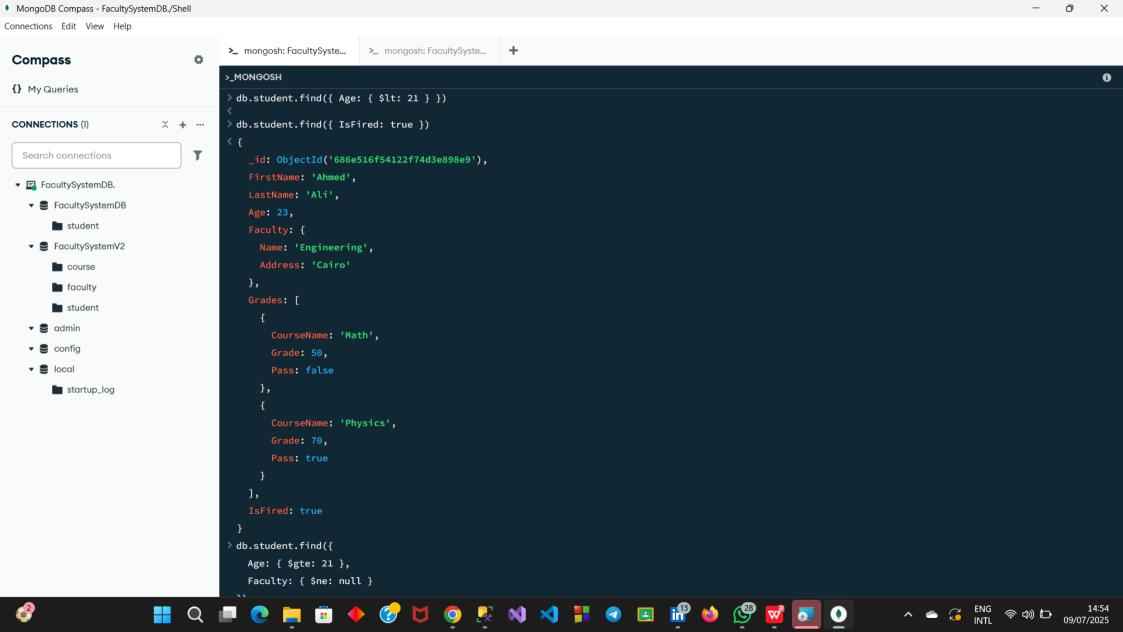
MongoDB Compass - FacultySystemDB./Shell

Connections Edit View Help

mongosh: FacultySyste...   mongosh: FacultySyste...

>_MONGOSH

```
> db.student.find()
< {
    _id: ObjectId('686e516f54122f74d3e898e9'),
    FirstName: 'Ahmed',
    LastName: 'Ali',
    Age: 23,
    Faculty: {
      Name: 'Engineering',
      Address: 'Cairo'
    },
    Grades: [
      {
        CourseName: 'Math',
        Grade: 50,
        Pass: false
      },
      {
        CourseName: 'Physics',
        Grade: 70,
        Pass: true
      }
    ],
    IsFired: true
  }
  {
    _id: ObjectId('686e516f54122f74d3e898ea'),
    FirstName: 'Sara',
    LastName: 'Youssef',
    Age: 22,
```

Compass

{} My Queries

CONNECTIONS (1)

Search connections

- FacultySystemDB.
  - FacultySystemDB
    - student
  - FacultySystemV2
    - course
    - faculty
    - student
  - admin
  - config
  - local
    - startup_log

  Faculty: {
    Name: 'Science',
    Address: 'Alex'
  },
  Grades: [
    {
      CourseName: 'Biology',
      Grade: 90,
      Pass: true
    },
    {
      CourseName: 'Chemistry',
      Grade: 80,
      Pass: true
    }
  ],
  IsFired: false
}
{
  _id: ObjectId('686e518754122f74d3e898eb'),
  FirstName: 'Laila',
  LastName: 'Kamal',
  Age: 24,
  Faculty: {
    Name: 'FCI',
    Address: 'Giza'
  },
  Grades: [
    {

Compass

{} My Queries

CONNECTIONS (1)

Search connections

- FacultySystemDB.
  - FacultySystemDB
    - student
  - FacultySystemV2
    - course
    - faculty
    - student
  - admin
  - config
  - local
    - startup_log

Connections Edit View Help

mongosh: FacultySyste... | mongosh: FacultySyste... | +

>_MONGOSH

```
      Grades: [
        {
          CourseName: 'HTML',
          Grade: 95,
          Pass: true
        },
        {
          CourseName: 'CSS',
          Grade: 85,
          Pass: true
        }
      ],
      IsFired: false
    }
> db.student.find({ FirstName: "Sara" })
< {
    _id: ObjectId('686e516f54122f74d3e898ea'),
    FirstName: 'Sara',
    LastName: 'Youssef',
    Age: 22,
    Faculty: {
      Name: 'Science',
      Address: 'Alex'
    },
    Grades: [
      {
        CourseName: 'Biology',
        Grade: 90,
        Pass: true
```

Compass

{} My Queries

CONNECTIONS (1)

Search connections

- FacultySystemDB.
  - FacultySystemDB
    - student
  - FacultySystemV2
    - course
    - faculty
    - student
  - admin
  - config
  - local
    - startup_log

Connections   Edit   View   Help

mongosh: FacultySyste...   mongosh: FacultySyste...

>_MONGOSH

Compass

{} My Queries

CONNECTIONS (1)

Search connections

- FacultySystemDB.
  - FacultySystemDB
    - student
  - FacultySystemV2
    - course
    - faculty
    - student
  - admin
  - config
  - local
    - startup_log

```
    },
    {
      CourseName: 'Chemistry',
      Grade: 80,
      Pass: true
    }
  ],
  IsFired: false
}
db.student.find({
  $or: [
    { FirstName: "Ahmed" },
    { LastName: "Ahmed" }
  ]
})
{
  _id: ObjectId('686e516f54122f74d3e898e9'),
  FirstName: 'Ahmed',
  LastName: 'Ali',
  Age: 23,
  Faculty: {
    Name: 'Engineering',
    Address: 'Cairo'
  },
  Grades: [
    {
      CourseName: 'Math',
      Grade: 50,
      Pass: false
```

Connections   Edit   View   Help

Compass

{} My Queries

CONNECTIONS (1)

Search connections

▾ ▣ FacultySystemDB.
  ▾ 🗄 FacultySystemDB
      📁 student
  ▾ 🗄 FacultySystemV2
      📁 course
      📁 faculty
      📁 student
  ▾ 🗄 admin
  ▾ 🗄 config
  ▾ 🗄 local
      📁 startup_log

>_MONGOSH

```
        Pass: false
      },
      {
        CourseName: 'Physics',
        Grade: 70,
        Pass: true
      }
    ],
    IsFired: true
  }
> db.student.find({ FirstName: { $ne: "Ahmed" } })
< {
    _id: ObjectId('686e516f54122f74d3e898ea'),
    FirstName: 'Sara',
    LastName: 'Youssef',
    Age: 22,
    Faculty: {
      Name: 'Science',
      Address: 'Alex'
    },
    Grades: [
      {
        CourseName: 'Biology',
        Grade: 90,
        Pass: true
      },
      {
        CourseName: 'Chemistry',
        Grade: 80,
```

```
        Pass: true
      }
    ],
    IsFired: false
}
{
    _id: ObjectId('686e518754122f74d3e898eb'),
    FirstName: 'Laila',
    LastName: 'Kamal',
    Age: 24,
    Faculty: {
      Name: 'FCI',
      Address: 'Giza'
    },
    Grades: [
      {
        CourseName: 'HTML',
        Grade: 95,
        Pass: true
      },
      {
        CourseName: 'CSS',
        Grade: 85,
        Pass: true
      }
    ],
    IsFired: false
}
```

> db.student.find({ Age: { $lt: 21 } })

Connections   Edit   View   Help

Compass

{} My Queries

CONNECTIONS (1)

Search connections

▼ 🖥 FacultySystemDB.
  ▼ 🛢 FacultySystemDB
    ■ student
  ▼ 🛢 FacultySystemV2
    ■ course
    ■ faculty
    ■ student
  ▼ 🛢 admin
  ▼ 🛢 config
  ▼ 🛢 local
    ■ startup_log

mongosh: FacultySyste...   mongosh: FacultySyste...   +

>_MONGOSH   ⓘ

```
> db.student.find({ Age: { $lt: 21 } })
<
> db.student.find({ IsFired: true })
< {
    _id: ObjectId('686e516f54122f74d3e898e9'),
    FirstName: 'Ahmed',
    LastName: 'Ali',
    Age: 23,
    Faculty: {
      Name: 'Engineering',
      Address: 'Cairo'
    },
    Grades: [
      {
        CourseName: 'Math',
        Grade: 50,
        Pass: false
      },
      {
        CourseName: 'Physics',
        Grade: 70,
        Pass: true
      }
    ],
    IsFired: true
  }
> db.student.find({
    Age: { $gte: 21 },
    Faculty: { $ne: null }
```

mongosh: FacultySyste...   mongosh: FacultySyste...   +

>_MONGOSH

```
})
< {
    _id: ObjectId('686e516f54122f74d3e898e9'),
    FirstName: 'Ahmed',
    LastName: 'Ali',
    Age: 23,
    Faculty: {
      Name: 'Engineering',
      Address: 'Cairo'
    },
    Grades: [
      {
        CourseName: 'Math',
        Grade: 50,
        Pass: false
      },
      {
        CourseName: 'Physics',
        Grade: 70,
        Pass: true
      }
    ],
    IsFired: true
  }
  {
    _id: ObjectId('686e516f54122f74d3e898ea'),
    FirstName: 'Sara',
    LastName: 'Youssef',
    Age: 22,
```

Compass

{} My Queries

CONNECTIONS (1)

Search connections

▼ FacultySystemDB.
  ▼ FacultySystemDB
      student
  ▼ FacultySystemV2
      course
      faculty
      student
  ▼ admin
  ▼ config
  ▼ local
      startup_log

mongosh: FacultySyste...   mongosh: FacultySyste...

>_MONGOSH

```
    Faculty: {
      Name: 'Science',
      Address: 'Alex'
    },
    Grades: [
      {
        CourseName: 'Biology',
        Grade: 90,
        Pass: true
      },
      {
        CourseName: 'Chemistry',
        Grade: 80,
        Pass: true
      }
    ],
    IsFired: false
  }
  {
    _id: ObjectId('686e518754122f74d3e898eb'),
    FirstName: 'Laila',
    LastName: 'Kamal',
    Age: 24,
    Faculty: {
      Name: 'FCI',
      Address: 'Giza'
    },
    Grades: [
      {
```

Compass

{} My Queries

CONNECTIONS (1)

Search connections

- FacultySystemDB.
  - FacultySystemDB
    - student
  - FacultySystemV2
    - course
    - faculty
    - student
  - admin
  - config
  - local
    - startup_log

Connections   Edit   View   Help

mongosh: FacultySyste...   mongosh: FacultySyste...

>_MONGOSH

```
    {
        CourseName: 'HTML',
        Grade: 95,
        Pass: true
    },
    {
        CourseName: 'CSS',
        Grade: 85,
        Pass: true
    }
    ],
    IsFired: false
}
> db.student.find(
    { FirstName: "Sara" },
    { FirstName: 1, LastName: 1, IsFired: 1, _id: 0 }
)
< {
    FirstName: 'Sara',
    LastName: 'Youssef',
    IsFired: false
}
> db.student.updateOne(
    { FirstName: "Sara" },
    { $set: { LastName: "Nabil" } }
)
< {
    acknowledged: true,
    insertedId: null,
```

Compass

{} My Queries

CONNECTIONS (1)

Search connections

FacultySystemDB.
  FacultySystemDB
    student
  FacultySystemV2
    course
    faculty
    student
  admin
  config
  local
    startup_log

Connections   Edit   View   Help

Compass

{} My Queries

CONNECTIONS (1)

Search connections

FacultySystemDB.
    FacultySystemDB
        student
    FacultySystemV2
        course
        faculty
        student
    admin
    config
    local
        startup_log

mongosh: FacultySyste...   mongosh: FacultySyste...

>_MONGOSH

```
)
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
}
db.student.updateMany(
    { "Faculty.Name": "FCI" },
    { $set: { IsFired: true } }
)
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
}
db.student.deleteMany({ IsFired: true })
{
    acknowledged: true,
    deletedCount: 2
}
db.student.drop()
true
db.dropDatabase()
{ ok: 1, dropped: 'FacultySystemDB' }
FacultySystemDB >
```