Retrive data

Open MongoDB shell

Documents 6   Aggregations   Schema   Indexes 1   Validation

Type a query: { field: 'value' } or **Generate query** ✦   Explain   Reset   **Find**   ◆/▷   Options ▾

Project   {name:1,age:1,_id:0}
Sort   { field: -1 } or [['field', -1]]   Max Time MS   60000
Collation   { locale: 'simple' }   Skip   0   Limit   0
Index Hint   { field: -1 }

EXPORT DATA ▾   25 ▾ 1 – 8 of 8 ↻   < >   ▾   ≡ {} ⊞

name : "Kolins"
age : 25

▶ name : "Pavani"
age : 23   ▦
Pavani

name : "Roneth"
age : 24

name : "Salma"
age : 22

name : "Azha"
age : 20

🕐 ▾   {regno:'2021IT002'}

⊕ ADD DATA ▾   EXPORT DATA ▾   ✎ UPDATE   🗑 DELETE   💡 INSIGHT

▶ _id: ObjectId('6809bff9b8012784fd7b124b')
   regno : "2021IT002"
   name : "Pavani"
   age : 23
   degree : "CS"
   gpa : 3.5
 ▸ skills : Array (4)
   gender : "Female"

▾   {gender:'Female',degree:'IT'}

ADD DATA ▾   EXPORT DATA ▾   ✎ UPDATE   🗑 DELETE   💡 INSIGHT

   _id: ObjectId('6809c168b8012784fd7b124d')
   regno : "2021IT004"
   name : "Salma"
   age : 22
   degree : "IT"
   gpa : 3.1
   gender : "Female"
 ▸ skills : Array (3)

   _id: ObjectId('6809c47941a6def9b79149e2')
   regno : "2021IT007"
   name : "Ridmi"
   age : 24
   degree : "IT"
   gpa : 3.5
   gender : "Female"
 ▸ skills : Array (3)

   _id: ObjectId('6809c47941a6def9b79149e3')
   regno : "2021IT008"
   name : "Yeheni"
   age : 22
   degree : "IT"
   gpa : 3.9
   gender : "Female"
 ▸ skills : Array (3)

Documents 6   Aggregations   Schema   Indexes 1   Validation

🕐 ▾   {gender:'Female',degree:'IT'}   Generate query ✦   Explain   Reset   **Find**   ◆/▷   Options ▸

⊕ ADD DATA ▾   EXPORT DATA ▾   ✎ UPDATE   🗑 DELETE   💡 INSIGHT   25 ▾ 1 – 3 of 3 ↻   < >   ▾   ≡ {} ⊞

🏠 students

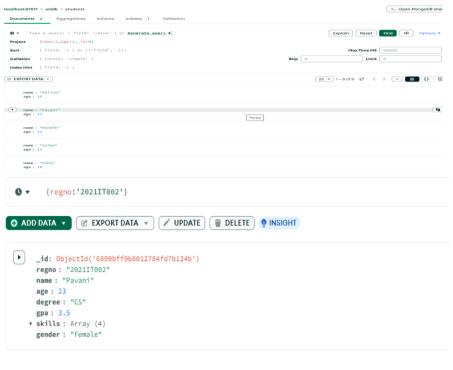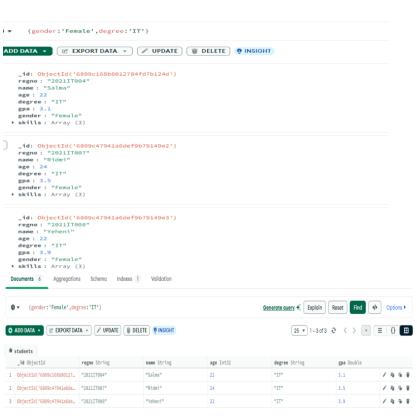|	_id ObjectId	regno String	name String	age Int32	degree String	gpa Double	
1	ObjectId('6809c168b80127…	"2021IT004"	"Salma"	22	"IT"	3.1	✎ 🗐 🗐 🗑
2	ObjectId('6809c47941a6de…	"2021IT007"	"Ridmi"	24	"IT"	3.5	✎ 🗐 🗐 🗑
3	ObjectId('6809c47941a6de…	"2021IT008"	"Yeheni"	22	"IT"	3.9	✎ 🗐 🗐 🗑

Using cmd command

```
> db.students.find({"gender":"Female","degree":"IT"})
< {
    _id: ObjectId('6809c168b8012784fd7b124d'),
    regno: '2021IT004',
    name: 'Salma',
    age: 22,
    degree: 'IT',
    gpa: 3.1,
    gender: 'Female',
    skills: [
      'JS',
      'MongoDb',
      'Node'
    ]
  }
  {
    _id: ObjectId('6809c47941a6def9b79149e2'),
    regno: '2021IT007',
    name: 'Ridmi',
    age: 24,
    degree: 'IT',
    gpa: 3.5,
    gender: 'Female',
    skills: [
      'JS',
      'MathLab',
      'Php'
    ]
  }
```

Find one method

```
> db.students.findOne({"gender":"Female","degree":"IT"})
< {
    _id: ObjectId('6809c168b8012784fd7b124d'),
    regno: '2021IT004',
    name: 'Salma',
    age: 22,
    degree: 'IT',
    gpa: 3.1,
    gender: 'Female',
    skills: [
      'JS',
      'MongoDb',
      'Node'
    ]
  }
```

Comparison Query

```
> db.students.find({ age: { $gt: 20 } })
< {
    _id: ObjectId('6809be71b8012784fd7b124a'),
    regno: '2021IT001',
    name: 'Kolins',
    age: 25,
    degree: 'IT',
    gpa: 3.2,
    skills: [
      'JS',
      'MongoDb',
      'Node'
    ],
    gender: 'Male'
  }
  {
    _id: ObjectId('6809bff9b8012784fd7b124b'),
    regno: '2021IT002',
    name: 'Pavani',
    age: 23,
    degree: 'CS',
    gpa: 3.5,
    skills: [
      'JS',
      'MongoDb',
      'Node',
      'php'
    ],
    gender: 'Female'
  }
```

localhost:27017 > unidb > students   >_ Open M

Documents 6   Aggregations   Schema   Indexes 1   Validation

🕐 ▾   { age: { $gt: 23 } }   Generate query +: Explain   Reset   Find ‹/›

⊕ ADD DATA ▾   ⬈ EXPORT DATA ▾   ✎ UPDATE   🗑 DELETE   ◉ INSIGHT   25 ▾ 1 – 4 of 4 ⟳ ‹ › ▾ ≡

```
{
  "_id": {⎕},
  "regno": "2021IT001",
  "name": "Kolins",
  "age": 25,
  "degree": "IT",
  "gpa": 3.2,
  "skills": [⎕],
  "gender": "Male"
}
{
  "_id": {⎕},
  "regno": "2021IT003",
  "name": "Roneth",
  "age": 24,
  "degree": "ITCS",
  "gpa": 3,
  "gender": "Male",
  "skills": [⎕]
}
{
  "_id": {⎕},
  "regno": "2021IT006",
  "name": "Pathum",
  "age": 24,
  "degree": "IT",
  "gpa": 2.5,
  "gender": "Male",
  "skills": [⎕]
}                                                                    ✎  ⎘
```

🕐 ▾   { age: { $eq: 25 } }   G

⊕ ADD DATA ▾   ⬈ EXPORT DATA ▾   ✎ UPDATE   🗑 DELETE   ◉ INSIGHT

```
{
  "_id": {⎕},
  "regno": "2021IT001",
  "name": "Kolins",
  "age": 25,
  "degree": "IT",
  "gpa": 3.2,
  "skills": [⎕],
  "gender": "Male"
}
```

```
> db.students.find({ age: 25 })
< {
    _id: ObjectId('6809be71b8012784fd7b124a'),
    regno: '2021IT001',
    name: 'Kolins',
    age: 25,
    degree: 'IT',
    gpa: 3.2,
    skills: [
      'JS',
      'MongoDb',
      'Node'
    ],
    gender: 'Male'
  }
```

Array element

```
> db.students.find({ skills: "MongoDb" })
< {
    _id: ObjectId('6809be71b8012784fd7b124a'),
    regno: '2021IT001',
    name: 'Kolins',
    age: 25,
    degree: 'IT',
    gpa: 3.2,
    skills: [
      'JS',
      'MongoDb',
      'Node'
    ],
    gender: 'Male'
  }
  {
    _id: ObjectId('6809bff9b8012784fd7b124b'),
    regno: '2021IT002',
    name: 'Pavani',
    age: 23,
    degree: 'CS',
    gpa: 3.5,
    skills: [
      'JS',
      'MongoDb',
      'Node',
      'php'
```

```
{ skills: "MongoDb" }

ADD DATA ▾    EXPORT DATA ▾    UPDATE    DELETE    INSIGHT

      "gender": "Female"
    }
  {
    "_id": {⊡},
    "regno": "2021IT003",
    "name": "Roneth",
    "age": 24,
    "degree": "ITCS",
    "gpa": 3,
    "gender": "Male",
    "skills": [⊡]
    }
  {
    "_id": {⊡},
    "regno": "2021IT004",
    "name": "Salma",
    "age": 22,
    "degree": "IT",
    "gpa": 3.1,
    "gender": "Female",
    "skills": [⊡]
    }
  {
    "_id": {⊡},
    "regno": "2021IT005",
    "name": "Azha",
    "age": 20,
    "degree": "ITCS",
    "gpa": 3.7,
    "gender": "Female",
    "skills": [⊡]
    }
```

Documents 6   Aggregations   Schema   Indexes 1   Validation

`{ skills: {$in: ["MongoDb"] }}`   Generate query   Expl

⊕ ADD DATA ▾   ⬈ EXPORT DATA ▾   ✎ UPDATE   🗑 DELETE   💡 INSIGHT   25 ▾   1 -

```
{
  "_id": {…},
  "regno": "2021IT001",
  "name": "Kolins",
  "age": 25,
  "degree": "IT",
  "gpa": 3.2,
  "skills": [ …],
  "gender": "Male"
}
```

```
{
  "_id": {…},
  "regno": "2021IT002",
  "name": "Pavani",
  "age": 23,
  "degree": "CS",
  "gpa": 3.5,
  "skills": [ …],
  "gender": "Female"
}
```

```
{
  "_id": {…},
  "regno": "2021IT003",
  "name": "Roneth",
  "age": 24,
  "degree": "ITCS",
  "gpa": 3,
  "gender": "Male",
  "skills": [ …]
}
```

`{ skills: {$in: ["MongoDb","Java"] }}`

⊕ ADD DATA ▾   ⬈ EXPORT DATA ▾   ✎ UPDATE   🗑 DELETE   💡 INSIGHT

```
}
```

```
{
  "_id": {…},
  "regno": "2021IT004",
  "name": "Salma",
  "age": 22,
  "degree": "IT",
  "gpa": 3.1,
  "gender": "Female",
  "skills": [ …]
}
```

```
{
  "_id": {…},
  "regno": "2021IT005",
  "name": "Azha",
  "age": 20,
  "degree": "ITCS",
  "gpa": 3.7,
  "gender": "Female",
  "skills": [ …]
}
```

```
{
  "_id": {…},
  "regno": "2021IT008",
  "name": "Yeheni",
  "age": 22,
  "degree": "IT",
  "gpa": 3.9,
  "gender": "Female",
  "skills": [ …]
}
```

Documents 6   Aggregations   Schema   Indexes 1   Validation

`{ skills: {$nin: ["MongoDb","Java"] }}`

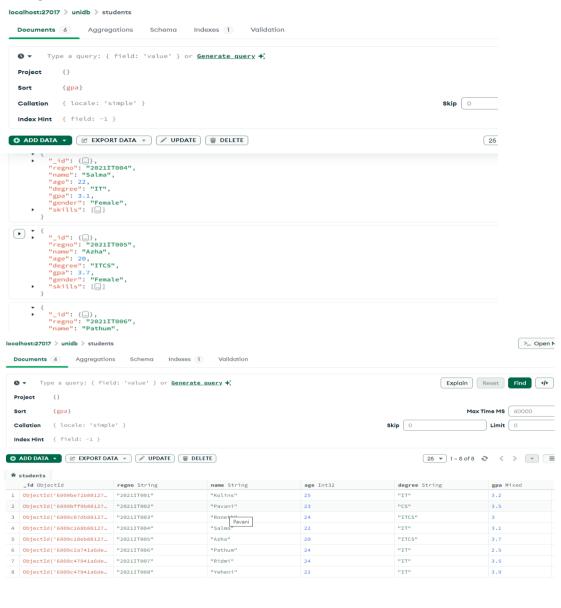⊕ ADD DATA ▾   ⬈ EXPORT DATA ▾   ✎ UPDATE   🗑 DELETE   💡 INSIGHT
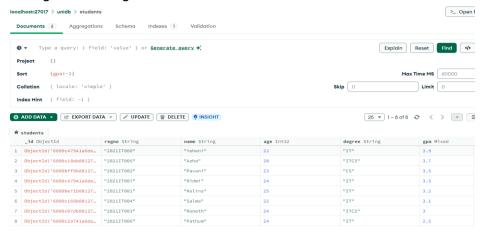
```
{
  "_id": {…},
  "regno": "2021IT006",
  "name": "Pathum",
  "age": 24,
  "degree": "IT",
  "gpa": 2.5,
  "gender": "Male",
  "skills": [ …]
}
```

```
{
  "_id": {…},
  "regno": "2021IT007",
  "name": "Ridmi",
  "age": 24,
  "degree": "IT",
  "gpa": 3.5,
  "gender": "Female",
  "skills": [ …]
}
```

Sorting

localhost:27017 > unidb > students

Documents `6`   Aggregations   Schema   Indexes `1`   Validation

---

🕐 ▾   Type a query: { field: 'value' } or **Generate query** ✨

Project	{}
Sort	{gpa}
Collation	{ locale: 'simple' }
Index Hint	{ field: -1 }

Skip: `0`

⊕ ADD DATA ▾   ⬈ EXPORT DATA ▾   ✏ UPDATE   🗑 DELETE   `25`

```
▾ {
▸   "_id": {⊡},
    "regno": "2021IT004",
    "name": "Salma",
    "age": 22,
    "degree": "IT",
    "gpa": 3.1,
    "gender": "Female",
▸   "skills": [⊡]
  }
▾ {
▸   "_id": {⊡},
    "regno": "2021IT005",
    "name": "Azha",
    "age": 20,
    "degree": "ITCS",
    "gpa": 3.7,
    "gender": "Female",
▸   "skills": [⊡]
  }
▾ {
▸   "_id": {⊡},
    "regno": "2021IT006",
    "name": "Pathum",
```

---

localhost:27017 > unidb > students   >_ Open N

Documents `6`   Aggregations   Schema   Indexes `1`   Validation

🕐 ▾   Type a query: { field: 'value' } or **Generate query** ✨   Explain   Reset   **Find**   </>

Project	{}		
Sort	{gpa}	Max Time MS	60000
Collation	{ locale: 'simple' }	Skip	0
Index Hint	{ field: -1 }	Limit	0

⊕ ADD DATA ▾   ⬈ EXPORT DATA ▾   ✏ UPDATE   🗑 DELETE   25 ▾ 1 – 8 of 8 ⟳ < > ▾ ☰

🏠 students

	_id ObjectId	regno String	name String	age Int32	degree String	gpa Mixed
1	ObjectId('6809be71b80127…	"2021IT001"	"Kolins"	25	"IT"	3.2
2	ObjectId('6809bff9b80127…	"2021IT002"	"Pavani"	23	"CS"	3.5
3	ObjectId('6809c07db80127…	"2021IT003"	"Ronet"	24	"ITCS"	3
4	ObjectId('6809c16b80127…	"2021IT004"	"Salma"	22	"IT"	3.1
5	ObjectId('6809c18eb80127…	"2021IT005"	"Azha"	20	"ITCS"	3.7
6	ObjectId('6809c2a741a6de…	"2021IT006"	"Pathum"	24	"IT"	2.5
7	ObjectId('6809c47941a6de…	"2021IT007"	"Ridmi"	24	"IT"	3.5
8	ObjectId('6809c47941a6de…	"2021IT008"	"Yeheni"	22	"IT"	3.9

Sorting descending order

localhost:27017 > unidb > students

Documents 6   Aggregations   Schema   Indexes 1   Validation

Type a query: { field: 'value' } or Generate query +

| | | Explain | Reset | Find | </> |

Project   {}
Sort   {gpa:-1}   Max Time MS   60000
Collation { locale: 'simple' }   Skip   0   Limit   0
Index Hint { field: -1 }

ADD DATA ▾   EXPORT DATA ▾   UPDATE   DELETE   INSIGHT   25 ▾ 1 – 8 of 8

students

	_id ObjectId	regno String	name String	age Int32	degree String	gpa Mixed
1	ObjectId('6809c4794la6de…	"2021IT008"	"Yeheni"	22	"IT"	3.9
2	ObjectId('6809c18eb80127…	"2021IT005"	"Azha"	20	"ITCS"	3.7
3	ObjectId('6809bff9b80127…	"2021IT002"	"Pavani"	23	"CS"	3.5
4	ObjectId('6809c4794la6de…	"2021IT007"	"Ridmi"	24	"IT"	3.5
5	ObjectId('6809be71b80127…	"2021IT001"	"Kolins"	25	"IT"	3.2
6	ObjectId('6809c16b80127…	"2021IT004"	"Salma"	22	"IT"	3.1
7	ObjectId('6809c07db80127…	"2021IT003"	"Roneth"	24	"ITCS"	3
8	ObjectId('6809c2a74la6de…	"2021IT006"	"Pathum"	24	"IT"	2.5

```
> db.students.find()
    .sort({ gpa: 1 });
< {
    _id: ObjectId('6809c2a741a6def9b79149e1'),
    regno: '2021IT006',
    name: 'Pathum',
    age: 24,
    degree: 'IT',
    gpa: 2.5,
    gender: 'Male',
    skills: [
      'JS',
      'MathLab',
      'Node'
    ]
  }
```

```
> db.students.find({'gender':'Male','degree':'IT'})
    .sort({ age: 1 });
< {
    _id: ObjectId('6809c2a741a6def9b79149e1'),
    regno: '2021IT006',
    name: 'Pathum',
    age: 24,
    degree: 'IT',
    gpa: 2.5,
    gender: 'Male',
    skills: [
      'JS',
      'MathLab',
      'Node'
    ]
  }
  {
    _id: ObjectId('6809be71b8012784fd7b124a'),
    regno: '2021IT001',
    name: 'Kolins',
    age: 25,
    degree: 'IT',
    gpa: 3.2,
    skills: [
      'JS',
      'MongoDb',
      'Node'
```