Microsoft Windows [Version 10.0.22621.3155]
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C:\Users\Abhay>mongoimport "D:\students.json" -d clg -c stu --jsonArray --drop
2024-02-26T01:18:36.016+0530   connected to: mongodb://localhost/
2024-02-26T01:18:36.016+0530   dropping: clg.stu
2024-02-26T01:18:36.025+0530   8 document(s) imported successfully. 0 document(s) failed to import.

C:\Users\Abhay>mongosh
Current Mongosh Log ID: 65db99b38eccdcd9e4332561
Connecting to:
mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.1.4
Using MongoDB: 6.0.13
Using Mongosh: 2.1.4
mongosh 2.1.5 is available for download: https://www.mongodb.com/try/download/shell

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

   The server generated these startup warnings when booting
   2024-02-25T20:44:45.707+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted------

test> show dbs
admin   40.00 KiB
arpit   72.00 KiB
clg   40.00 KiB
config 108.00 KiB
local   40.00 KiB
school   40.00 KiB
test> db.clg.find()

test> use clg
switched to db clg
clg> show collections
stu
clg> db.stu.find()
[
  {
    _id: ObjectId('65db99948983a2ee023a3a6c'),
    name: 'Geeta',
    age: 12,
    Hobbies: ['Gaming', 'Cooking'],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I code and play games.',
    experience: [
      { company: 'Spotify', duration: 1 },

```
    { company: 'Google', duration: 3.4 }
  ]
},
{
  _id: ObjectId('65db99948983a2ee023a3a6d'),
  name: 'Rita',
  age: 11,
  Hobbies: [ 'Anime' ],
  identity: { hasPanCard: false, hasAdhaarCard: true },
  bio: 'I play games'
},
{
  _id: ObjectId('65db99948983a2ee023a3a6e'),
  name: 'Sita',
  age: 25,
  Hobbies: [ 'Walk', 'Cricket' ],
  identity: { hasPanCard: false, hasAdhaarCard: true },
  bio: 'I am a youtuber',
  experience: [
    { company: 'Spotify', duration: 3 },
    { company: 'Paytm', duration: 1 }
  ]
},
{
  _id: ObjectId('65db99948983a2ee023a3a6f'),
  name: 'Shyam',
  age: 11,
  Hobbies: [ 'Walking', 'Reading' ],
  identity: { hasPanCard: false, hasAdhaarCard: true },
  bio: 'I am a youtuber and actor'
},
{
  _id: ObjectId('65db99948983a2ee023a3a70'),
  name: 'Ram',
  age: 10,
  Hobbies: [ 'Walk', 'Cricket' ],
  identity: { hasPanCard: false, hasAdhaarCard: true },
  bio: 'I do nothing.',
  experience: [
    { company: 'KPMG', duration: 1 },
    { company: 'EY', duration: 1.5 },
    { company: 'TCS', duration: 0.5 }
  ]
},
{
  _id: ObjectId('65db99948983a2ee023a3a71'),
  name: 'Ghanshayam',
  age: 11,
```

```
    Hobbies: [ 'Walk', 'Cricket' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I am a cook',
    experience: [
      { company: 'Times Internet', duration: 1 },
      { company: '1 mg', duration: 1 },
      { company: 'Apple', duration: 2 }
    ]
  },
```

clg> db.stu.find({age:{$eq:12}})

```
[
  {
    _id: ObjectId('65db99948983a2ee023a3a6c'),
    name: 'Geeta',
    age: 12,
    Hobbies: [ 'Gaming', 'Cooking' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I code and play games.',
    experience: [
      { company: 'Spotify', duration: 1 },
      { company: 'Google', duration: 3.4 }
    ]
  }
]
```

clg> db.stu.find({age:{$ne:12}})

```
[
  {
    _id: ObjectId('65db99948983a2ee023a3a6d'),
    name: 'Rita',
    age: 11,
    Hobbies: [ 'Anime' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I play games'
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a6e'),
    name: 'Sita',
    age: 25,
    Hobbies: [ 'Walk', 'Cricket' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I am a youtuber',
    experience: [
      { company: 'Spotify', duration: 3 },
      { company: 'Paytm', duration: 1 }
    ]
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a6f'),
```

```
    name: 'Shyam',
    age: 11,
    Hobbies: [ 'Walking', 'Reading' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I am a youtuber and actor'
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a70'),
    name: 'Ram',
    age: 10,
    Hobbies: [ 'Walk', 'Cricket' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I do nothing.',
    experience: [
      { company: 'KPMG', duration: 1 },
      { company: 'EY', duration: 1.5 },
      { company: 'TCS', duration: 0.5 }
    ]
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a71'),
    name: 'Ghanshayam',
    age: 11,
    Hobbies: [ 'Walk', 'Cricket' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I am a cook',
    experience: [
      { company: 'Times Internet', duration: 1 },
      { company: '1 mg', duration: 1 },
      { company: 'Apple', duration: 2 }
    ]
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a72'),
    name: 'Akshit',
    age: 22,
    hobbies: [ 'TV Shows' ],
    hasMacBook: true,
    bio: 'I am savage boi.',
    experience: [
      { company: 'Amazon', duration: 2 },
      { company: 'Google', duration: 3 }
    ]
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a73'),
    name: 'Geeta',
    bio: 'I just code.',
```

```
      experience: [
        { company: 'Amazon', duration: 2 },
        { company: 'Flipkart', duration: 1 }
      ],
      Hobbies: [ 'Reading', 'Walking' ]
    }
  ]
clg> db.stu.find({age:{$gt:12}})
[
  {
    _id: ObjectId('65db99948983a2ee023a3a6e'),
    name: 'Sita',
    age: 25,
    Hobbies: [ 'Walk', 'Cricket' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I am a youtuber',
    experience: [
      { company: 'Spotify', duration: 3 },
      { company: 'Paytm', duration: 1 }
    ]
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a72'),
    name: 'Akshit',
    age: 22,
    hobbies: [ 'TV Shows' ],
    hasMacBook: true,
    bio: 'I am savage boi.',
    experience: [
      { company: 'Amazon', duration: 2 },
      { company: 'Google', duration: 3 }
    ]
  }
]
clg> db.stu.find({age:{$gte:12}})
[
  {
    _id: ObjectId('65db99948983a2ee023a3a6c'),
    name: 'Geeta',
    age: 12,
    Hobbies: [ 'Gaming', 'Cooking' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I code and play games.',
    experience: [
      { company: 'Spotify', duration: 1 },
      { company: 'Google', duration: 3.4 }
    ]
  },
```

```
  {
    _id: ObjectId('65db99948983a2ee023a3a6e'),
    name: 'Sita',
    age: 25,
    Hobbies: [ 'Walk', 'Cricket' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I am a youtuber',
    experience: [
      { company: 'Spotify', duration: 3 },
      { company: 'Paytm', duration: 1 }
    ]
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a72'),
    name: 'Akshit',
    age: 22,
    hobbies: [ 'TV Shows' ],
    hasMacBook: true,
    bio: 'I am savage boi.',
    experience: [
      { company: 'Amazon', duration: 2 },
      { company: 'Google', duration: 3 }
    ]
  }
]
```

<mark>clg> db.stu.find({age:{$lt:20,$gt:15}})</mark>

<mark>clg> db.stu.find({age:{$lt:25,$gt:15}})</mark>
```
[
  {
    _id: ObjectId('65db99948983a2ee023a3a72'),
    name: 'Akshit',
    age: 22,
```
<mark>clg> db.stu.find({age:{$eq:22},'experience.duration':{$gt:1}},{bio:5})</mark>
```
[
  {
    _id: ObjectId('65db99948983a2ee023a3a72'),
    bio: 'I am savage boi.'
  }
]
```
<mark>clg> db.stu.find({age:{$in:[12,22]}})</mark>
```
[
  {
    _id: ObjectId('65db99948983a2ee023a3a6c'),
    name: 'Geeta',
    age: 12,
    Hobbies: [ 'Gaming', 'Cooking' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
```

```
    bio: 'I code and play games.',
    experience: [
      { company: 'Spotify', duration: 1 },
      { company: 'Google', duration: 3.4 }
    ]
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a72'),
    name: 'Akshit',
    age: 22,
    hobbies: [ 'TV Shows' ],
    hasMacBook: true,
    bio: 'I am savage boi.',
    experience: [
      { company: 'Amazon', duration: 2 },
      { company: 'Google', duration: 3 }
    ]
  }
]
clg> db.stu.find({age:{$nin:[12,22]}})
[
  {
    _id: ObjectId('65db99948983a2ee023a3a6d'),
    name: 'Rita',
    age: 11,
    Hobbies: [ 'Anime' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I play games'
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a6e'),
    name: 'Sita',
    age: 25,
    Hobbies: [ 'Walk', 'Cricket' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I am a youtuber',
    experience: [
      { company: 'Spotify', duration: 3 },
      { company: 'Paytm', duration: 1 }
    ]
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a6f'),
    name: 'Shyam',
    age: 11,
    Hobbies: [ 'Walking', 'Reading' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I am a youtuber and actor'
```

```
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a70'),
    name: 'Ram',
    age: 10,
    Hobbies: [ 'Walk', 'Cricket' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I do nothing.',
    experience: [
```
clg> db.stu.find({'Hobbies':'Walking'})
```
[
  {
    _id: ObjectId('65db99948983a2ee023a3a6f'),
    name: 'Shyam',
    age: 11,
    Hobbies: [ 'Walking', 'Reading' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I am a youtuber and actor'
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a73'),
    name: 'Geeta',
    bio: 'I just code.',
    experience: [
      { company: 'Amazon', duration: 2 },
      { company: 'Flipkart', duration: 1 }
    ],
    Hobbies: [ 'Reading', 'Walking' ]
  }
]
```
clg> db.stu.find({$or:[{age:{$lt:10}},{age:{$gt:12}}]})
```
[
  {
    _id: ObjectId('65db99948983a2ee023a3a6e'),
    name: 'Sita',
    age: 25,
    Hobbies: [ 'Walk', 'Cricket' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I am a youtuber',
    experience: [
      { company: 'Spotify', duration: 3 },
      { company: 'Paytm', duration: 1 }
    ]
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a72'),
    name: 'Akshit',
    age: 22,
```

```
      hobbies: [ 'TV Shows' ],
      hasMacBook: true,
      bio: 'I am savage boi.',
      experience: [
        { company: 'Amazon', duration: 2 },
        { company: 'Google', duration: 3 }
      ]
    }
  ]
clg> db.stu.find({$or:[{age:{$eq:10}},{age:{$eq:12}}]})
[
  {
    _id: ObjectId('65db99948983a2ee023a3a6c'),
    name: 'Geeta',
    age: 12,
    Hobbies: [ 'Gaming', 'Cooking' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I code and play games.',
    experience: [
      { company: 'Spotify', duration: 1 },
      { company: 'Google', duration: 3.4 }
    ]
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a70'),
    name: 'Ram',
clg> db.stu.find({$and:[{age:{$eq:10}},{'experience.duration':{$eq:1}}]})
[
  {
    _id: ObjectId('65db99948983a2ee023a3a70'),
    name: 'Ram',
    age: 10,
    Hobbies: [ 'Walk', 'Cricket' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I do nothing.',
    experience: [
      { company: 'KPMG', duration: 1 },
      { company: 'EY', duration: 1.5 },
      { company: 'TCS', duration: 0.5 }
    ]
  }
]
clg> db.stu.find({$nor:[{age:{$eq:10}},{age:{$eq:12}}]})
[
  {
    _id: ObjectId('65db99948983a2ee023a3a6d'),
    name: 'Rita',
    age: 11,
```

```
    Hobbies: [ 'Anime' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I play games'
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a6e'),
    name: 'Sita',
    age: 25,
    Hobbies: [ 'Walk', 'Cricket' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I am a youtuber',
    experience: [
      { company: 'Spotify', duration: 3 },
      { company: 'Paytm', duration: 1 }
    ]
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a6f'),
    name: 'Shyam',
    age: 11,
    Hobbies: [ 'Walking', 'Reading' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I am a youtuber and actor'
  },
  {
    _id: ObjectId('65db99948983a2ee023a3a71'),
    name: 'Ghanshayam',
    age: 11,
    Hobbies: [ 'Walk', 'Cricket' ],
    identity: { hasPanCard: false, hasAdhaarCard: true },
    bio: 'I am a cook',
    experience: [
      { company: 'Times Internet', duration: 1 },
      { company: '1 mg', duration: 1 },
      { company: 'Apple', duration: 2 }
    ]
  },
```

`clg> db.stu.find({$and:[{age:{$lt:23}},{hobbies:'TV Shows'}]})`

```
[
  {
    _id: ObjectId('65db99948983a2ee023a3a72'),
    name: 'Akshit',
    age: 22,
    hobbies: [ 'TV Shows' ],
    hasMacBook: true,
    bio: 'I am savage boi.',
    experience: [
      { company: 'Amazon', duration: 2 },
```

```
     { company: 'Google', duration: 3 }
   ]
```
clg> db.stu.find({$and:[{age:{$not:{$lt:20}}},{age:{$not:{$gt:24}}}]}])
```
[
  {
    _id: ObjectId('65db99948983a2ee023a3a72'),
    name: 'Akshit',
    age: 22,
    hobbies: [ 'TV Shows' ],
    hasMacBook: true,
    bio: 'I am savage boi.',
```
clg> db.stu.find({hasMacBook:{$exists:true}})
```
[
  {
    _id: ObjectId('65db99948983a2ee023a3a72'),
    name: 'Akshit',
    age: 22,
    hobbies: [ 'TV Shows' ],
    hasMacBook: true,
    bio: 'I am savage boi.',
    experience: [
      { company: 'Amazon', duration: 2 },
      { company: 'Google', duration: 3 }
    ]
  }
]
```
clg> db.stu.find({hasMacBook:{$exists:true,$type:8}})
```
[
  {
    _id: ObjectId('65db99948983a2ee023a3a72'),
    name: 'Akshit',
    age: 22,
    hobbies: [ 'TV Shows' ],
    hasMacBook: true,
    bio: 'I am savage boi.',
    experience: [
      { company: 'Amazon', duration: 2 },
      { company: 'Google', duration: 3 }
    ]
  }
]
```
clg> db.stu.find({hasMacBook:{$type:8}})
```
[
  {
    _id: ObjectId('65db99948983a2ee023a3a72'),
    name: 'Akshit',
    age: 22,
    hobbies: [ 'TV Shows' ],
```

```
    hasMacBook: true,
    bio: 'I am savage boi.',
    experience: [
      { company: 'Amazon', duration: 2 },
      { company: 'Google', duration: 3 }
    ]
  }
]
```