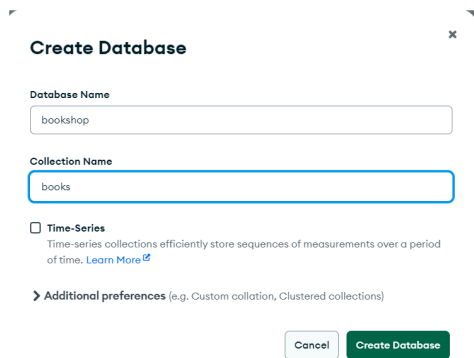


1.



Create Database

Database Name
bookshop

Collection Name
books

☐ Time-Series
Time-series collections efficiently store sequences of measurements over a period of time. [Learn More](#)

> Additional preferences (e.g. Custom collation, Clustered collections)

Cancel Create Database

2.

3. use bookshop

```
db.books.insertMany([
  {
    "title": "1984",
    "author": "George Orwell",
    "published_year": 1949,
    "genres": ["Dystopian", "Political Fiction"],
    "pages": 328,
    "available": true,
    "rating": 4.7
  },
  {
    "title": "To Kill a Mockingbird",
    "author": "Harper Lee",
    "published_year": 1960,
    "genres": ["Southern Gothic", "Drama"],
    "pages": 281,
    "available": false,
    "rating": 4.6
  },
  {
    "title": "The Great Gatsby",
    "author": "F. Scott Fitzgerald",
    "published_year": 1925,
    "genres": ["Tragedy"],
    "pages": 180,
    "available": true,
    "rating": 4.4
  },
  {
    "title": "Brave New World",
    "author": "Aldous Huxley",
    "published_year": 1932,
    "genres": ["Science Fiction", "Dystopian"],
    "pages": 311,
    "available": true,
    "rating": 4.2
  }
])
```

```

{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('680ef843e776cf4bd26100df'),
    '1': ObjectId('680ef843e776cf4bd26100e0'),
    '2': ObjectId('680ef843e776cf4bd26100e1'),
    '3': ObjectId('680ef843e776cf4bd26100e2')
  }
}

```

4. db.books.find().pretty()

	_id	title	author	published_year	genres	pages
1	ObjectId('680ef806a6b9e8...')	"The Hobbit"	"J.R.R. Tolkien"	1937	[] 2 elements	310
2	ObjectId('680ef843e776cf...')	"1984"	"George Orwell"	1949	[] 2 elements	328
3	ObjectId('680ef843e776cf...')	"To Kill a Mockingbird"	"Harper Lee"	1960	[] 2 elements	281
4	ObjectId('680ef843e776cf...')	"The Great Gatsby"	"F. Scott Fitzgerald"	1925	[] 1 elements	180
5	ObjectId('680ef843e776cf...')	"Brave New World"	"Aldous Huxley"	1932	[] 2 elements	311

5. db.books.find({ published_year: {\$gt:1950}})

```

> db.books.find({ published_year: {$gt:1950}})
< {
  _id: ObjectId('680ef843e776cf4bd26100e0'),
  title: 'To Kill a Mockingbird',
  author: 'Harper Lee',
  published_year: 1960,
  genres: [
    'Southern Gothic',
    'Drama'
  ],
  pages: 281,
  available: false,
  rating: 4.6
}

```

6. db.books.find({ available: true})

```

< {
  _id: ObjectId('680ef806a6b9e8ca4a434c48'),
  title: 'The Hobbit',
  author: 'J.R.R. Tolkien',
  published_year: 1937,
  genres: [
    'Fantasy',
    'Adventure'
  ],
  pages: 310,
  available: true,
  rating: 4.8
}
{
  _id: ObjectId('680ef843e776cf4bd26100df'),
  title: '1984',
  author: 'George Orwell',
  published_year: 1949,
  genres: [
    'Dystopian',
    'Political Fiction'
  ],
  pages: 328,
  available: true,
  rating: 4.7
}

```

```

{
  _id: ObjectId('680ef843e776cf4bd26100e1'),
  title: 'The Great Gatsby',
  author: 'F. Scott Fitzgerald',
  published_year: 1925,
  genres: [
    'Tragedy'
  ],
  pages: 180,
  available: true,
  rating: 4.4
}
{
  _id: ObjectId('680ef843e776cf4bd26100e2'),
  title: 'Brave New World',
  author: 'Aldous Huxley',
  published_year: 1932,
  genres: [
    'Science Fiction',
    'Dystopian'
  ],
  pages: 311,
  available: true,
  rating: 4.2
}

```

7. db.books.find({ genres: 'Dystopian'})

```

> db.books.find({ genres: 'Dystopian'})
< {
  _id: ObjectId('680ef843e776cf4bd26100df'),
  title: '1984',
  author: 'George Orwell',
  published_year: 1949,
  genres: [
    'Dystopian',
    'Political Fiction'
  ],
  pages: 328,
  available: true,
  rating: 4.7
}
{
  _id: ObjectId('680ef843e776cf4bd26100e2'),
  title: 'Brave New World',
  author: 'Aldous Huxley',
  published_year: 1932,
  genres: [
    'Science Fiction',
    'Dystopian'
  ],
  pages: 311,
  available: true,
  rating: 4.2
}

```

```

> db.books.find({ genres: 'Dystopian'})
< {
  _id: ObjectId('680ef843e776cf4bd26100df'),
  title: '1984',
  author: 'George Orwell',
  published_year: 1949,
  genres: [
    'Dystopian',
    'Political Fiction'
  ],
  pages: 328,
  available: true,
  rating: 4.7
}
{
  _id: ObjectId('680ef843e776cf4bd26100e2'),
  title: 'Brave New World',
  author: 'Aldous Huxley',
  published_year: 1932,
  genres: [
    'Science Fiction',
    'Dystopian'
  ],
  pages: 311,
  available: true,
  rating: 4.2
}

```

8. `db.books.find({ published_year: {$gt:1960},rating:{$gt:4.0}})`

```

> db.books.find({ published_year: {$gt:1960},rating:{$gt:4.0}})
<

```

9. `db.books.find({}, { title:1,author:1,_id:0})`

```

> db.books.find({}, { title:1,author:1,_id:0})
< {
  title: 'The Hobbit',
  author: 'J.R.R. Tolkien'
}
{
  title: '1984',
  author: 'George Orwell'
}
{
  title: 'To Kill a Mockingbird',
  author: 'Harper Lee'
}
{
  title: 'The Great Gatsby',
  author: 'F. Scott Fitzgerald'
}
{
  title: 'Brave New World',
  author: 'Aldous Huxley'
}

```

```
10. db.books.updateOne({title: '1984'},{$set:{ available: false}})
    db.books.findOne({title: '1984'})
```

```
> db.books.updateOne({title: '1984'},{$set:{ available: false}})
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
> db.books.findOne({title: '1984'})
< {
  _id: ObjectId('680ef843e776cf4bd26100df'),
  title: '1984',
  author: 'George Orwell',
  published_year: 1949,
  genres: [
    'Dystopian',
    'Political Fiction'
  ],
  pages: 328,
  available: false,
  rating: 4.7
}
```

```
11. db.books.updateOne({ title: 'Brave New World'},{$inc:{ rating: 0.1}})
    db.books.findOne({ title: 'Brave New World'})
```

```
> db.books.updateOne({ title: 'Brave New World'},{$inc:{ rating: 0.1}})
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
> db.books.findOne({ title: 'Brave New World'})
< {
  _id: ObjectId('680ef843e776cf4bd26100e2'),
  title: 'Brave New World',
  author: 'Aldous Huxley',
  published_year: 1932,
  genres: [
    'Science Fiction',
    'Dystopian'
  ],
  pages: 311,
  available: true,
  rating: 4.3
}
```

12. db.books.updateOne({ title: 'The Great Gatsby'},{ \$push:{ genre: "classic"}})

```
> db.books.findOne({ title: 'The Great Gatsby'})
< {
  _id: ObjectId('680ef843e776cf4bd26100e1'),
  title: 'The Great Gatsby',
  author: 'F. Scott Fitzgerald',
  published_year: 1925,
  genres: [
    'Tragedy',
    'classic'
  ],
  pages: 180,
  available: true,
  rating: 4.4
}
```

13. db.books.find().sort({published_year:1})

```
> db.books.find().sort({published_year:1})
< {
  _id: ObjectId('680ef843e776cf4bd26100e1'),
  title: 'The Great Gatsby',
  author: 'F. Scott Fitzgerald',
  published_year: 1925,
  genres: [
    'Tragedy',
    'classic'
  ],
  pages: 180,
  available: true,
  rating: 4.4
}
{
  _id: ObjectId('680ef843e776cf4bd26100e2'),
  title: 'Brave New World',
  author: 'Aldous Huxley',
  published_year: 1932,
  genres: [
    'Science Fiction',
    'Dystopian'
  ],
  pages: 311,
  available: true,
  rating: 4.3
}
```

```
{
  _id: ObjectId('680ef806a6b9e8ca4a434c48'),
  title: 'The Hobbit',
  author: 'J.R.R. Tolkien',
  published_year: 1937,
  genres: [
    'Fantasy',
    'Adventure'
  ],
  pages: 310,
  available: true,
  rating: 4.8
}
{
  _id: ObjectId('680ef843e776cf4bd26100df'),
  title: '1984',
  author: 'George Orwell',
  published_year: 1949,
  genres: [
    'Dystopian',
    'Political Fiction'
  ],
  pages: 328,
  available: false,
  rating: 4.7
}
```

```
{
  _id: ObjectId('680ef843e776cf4bd26100e0'),
  title: 'To Kill a Mockingbird',
  author: 'Harper Lee',
  published_year: 1960,
  genres: [
    'Southern Gothic',
    'Drama'
  ],
  pages: 281,
  available: false,
  rating: 4.6
}
```

14. db.books.find().sort({rating:-1})

```
> db.books.find().sort({rating:-1})
< {
  _id: ObjectId('680ef806a6b9e8ca4a434c48'),
  title: 'The Hobbit',
  author: 'J.R.R. Tolkien',
  published_year: 1937,
  genres: [
    'Fantasy',
    'Adventure'
  ],
  pages: 310,
  available: true,
  rating: 4.8
}
{
  _id: ObjectId('680ef843e776cf4bd26100df'),
  title: '1984',
  author: 'George Orwell',
  published_year: 1949,
  genres: [
    'Dystopian',
    'Political Fiction'
  ],
  pages: 328,
  available: false,
  rating: 4.7
}

{
  _id: ObjectId('680ef843e776cf4bd26100e0'),
  title: 'To Kill a Mockingbird',
  author: 'Harper Lee',
  published_year: 1960,
  genres: [
    'Southern Gothic',
    'Drama'
  ],
  pages: 281,
  available: false,
  rating: 4.6
}
{
  _id: ObjectId('680ef843e776cf4bd26100e1'),
  title: 'The Great Gatsby',
  author: 'F. Scott Fitzgerald',
  published_year: 1925,
  genres: [
    'Tragedy',
    'classic'
  ],
  pages: 180,
  available: true,
  rating: 4.4
}
```



```
{
  _id: ObjectId('680ef843e776cf4bd26100e2'),
  title: 'Brave New World',
  author: 'Aldous Huxley',
  published_year: 1932,
  genres: [
    'Science Fiction',
    'Dystopian'
  ],
  pages: 311,
  available: true,
  rating: 4.3
}
```

15. db.books.deleteMany({rating:{\$lt:4.5}})

```
> db.books.deleteMany({rating:{$lt:4.5}})
< {
  acknowledged: true,
  deletedCount: 2
}
```

books						
	_id	title	author	published_year	genres	pages
1	ObjectId('680ef806a6b9e8...	"The Hobbit"	"J.R.R. Tolkien"	1937	[] 2 elements	310
2	ObjectId('680ef843e776cf...	"1984"	"George Orwell"	1949	[] 2 elements	328
3	ObjectId('680ef843e776cf...	"To Kill a Mockingbird"	"Harper Lee"	1960	[] 2 elements	281