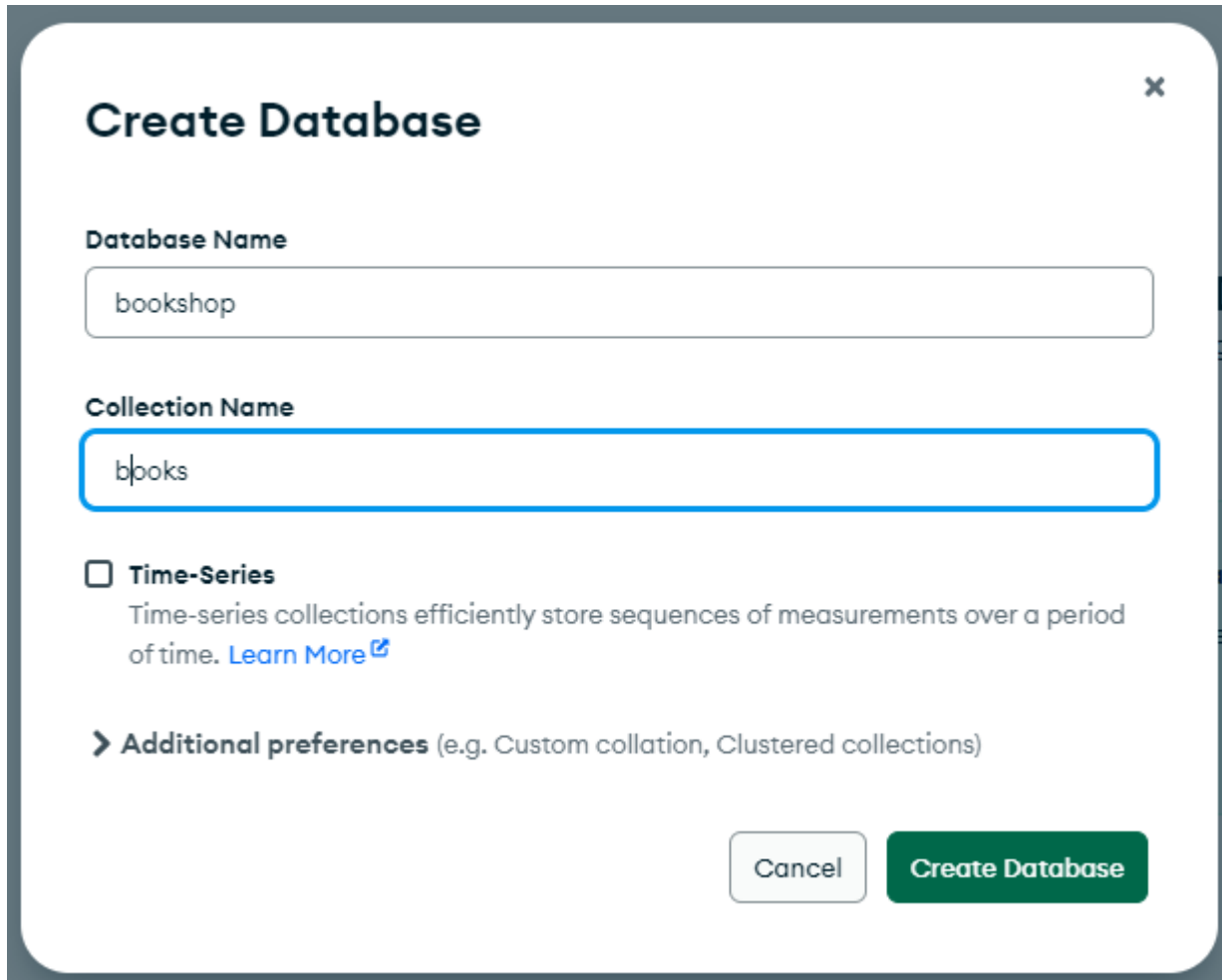


01.create a database bookshop

02.create a collection books



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

03.insert the following data

```
{  
  "title": "The Hobbit",  
  "author": "J.R.R. Tolkien",  
  "published_year": 1937,  
  "genres": ["Fantasy", "Adventure"],  
  "pages": 310,  
  "available": true,  
}
```

```
"rating": 4.8
},
{
  "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
}
```


 Type a query: { field: 'value' } or [Generate query](#) 



Explain



Reset


Find





Options 


 ADD DATA 



 EXPORT DATA 


 UPDATE


 DELETE


25 


1 - 5 of 5 









```
_id: ObjectId('681b9791a5c6bf49a239f844')
title: "The Hobbit"
author: "J.R.R. Tolkien"
published_year: 1937
genres: Array (2)
pages: 310
available: true
rating: 4.8
```

```
_id: ObjectId('681b9791a5c6bf49a239f845')
title: "1984"
author: "George Orwell"
published_year: 1949
genres: Array (2)
pages: 328
available: true
rating: 4.7
```

```
_id: ObjectId('681b9791a5c6bf49a239f846')
title: "To Kill a Mockingbird"
author: "Harper Lee"
published_year: 1960
```

04.Find all books

```
db.books.find()
```

```

>_MONGOSH
> use bookshop
< switched to db bookshop
> db.books.find()
< {
  _id: ObjectId('681b9791a5c6bf49a239f844'),
  title: 'The Hobbit',
  author: 'J.R.R. Tolkien',
  published_year: 1937,
  genres: [
    'Fantasy',
    'Adventure'
  ],
  pages: 310,
  available: true,
  rating: 4.8
}
{
  _id: ObjectId('681b9791a5c6bf49a239f845'),
  title: '1984',
  author: 'George Orwell',
  published_year: 1949,
  genres: [
    'Dystopian',
    'Political Fiction'
  ],

```

```

>_MONGOSH
pages: 328,
available: true,
rating: 4.7
}
{
  _id: ObjectId('681b9791a5c6bf49a239f846'),
  title: 'To Kill a Mockingbird',
  author: 'Harper Lee',
  published_year: 1960,
  genres: [
    'Southern Gothic',
    'Drama'
  ],
  pages: 281,
  available: false,
  rating: 4.6
}
{
  _id: ObjectId('681b9791a5c6bf49a239f847'),
  title: 'The Great Gatsby',
  author: 'F. Scott Fitzgerald',
  published_year: 1925,
  genres: [
    'Tragedy'
  ],

```

```

    pages: 180,
    available: true,
    rating: 4.4
  }
  {
    _id: ObjectId('681b9791a5c6bf49a239f848'),
    title: 'Brave New World',
    author: 'Aldous Huxley',
    published_year: 1932,
    genres: [
      'Science Fiction',
      'Dystopian'
    ],
    pages: 311,
    available: true,
    rating: 4.2
  }
bookshop>

```

05. Find all books published year 1950

```
db.books.find({published_year:{$gte:1950}})
```

```

> db.books.find({published_year:{$gte:1950}})
< {
  _id: ObjectId('681b9791a5c6bf49a239f846'),
  title: 'To Kill a Mockingbird',
  author: 'Harper Lee',
  published_year: 1960,
  genres: [
    'Southern Gothic',
    'Drama'
  ],
  pages: 281,
  available: false,
  rating: 4.6
}
bookshop>

```

06. Find the available books

```
db.books.find({ "available": true });
```

```
>_MONGOSH
```

```
> db.books.find({ "available": true });
```

```
< {  
  _id: ObjectId('681b9791a5c6bf49a239f844'),  
  title: 'The Hobbit',  
  author: 'J.R.R. Tolkien',  
  published_year: 1937,  
  genres: [  
    'Fantasy',  
    'Adventure'  
  ],  
  pages: 310,  
  available: true,  
  rating: 4.8  
}  
{  
  _id: ObjectId('681b9791a5c6bf49a239f845'),  
  title: '1984',  
  author: 'George Orwell',  
  published_year: 1949,  
  genres: [  
    'Dystopian',  
    'Political Fiction'  
  ],  
}
```

>_MONGOSH

```
  pages: 328,  
  available: true,  
  rating: 4.7  
}  
{  
  _id: ObjectId('681b9791a5c6bf49a239f847'),  
  title: 'The Great Gatsby',  
  author: 'F. Scott Fitzgerald',  
  published_year: 1925,  
  genres: [  
    'Tragedy'  
  ],  
  pages: 180,  
  available: true,  
  rating: 4.4  
}  
{  
  _id: ObjectId('681b9791a5c6bf49a239f848'),  
  title: 'Brave New World',  
  author: 'Aldous Huxley',  
  published_year: 1932,  
  genres: [  
    'Science Fiction',  
    'Dystopian'  
  ],  
}
```

07. Find all books that belong to the "Dystopian" genre

```
db.books.find({ "genres": "Dystopian" });
```

```

>_MONGOSH
> db.books.find({"genres":"Dystopian"});
< {
  _id: ObjectId('681b9791a5c6bf49a239f845'),
  title: '1984',
  author: 'George Orwell',
  published_year: 1949,
  genres: [
    'Dystopian',
    'Political Fiction'
  ],
  pages: 328,
  available: true,
  rating: 4.7
}
{
  _id: ObjectId('681b9791a5c6bf49a239f848'),
  title: 'Brave New World',
  author: 'Aldous Huxley',
  published_year: 1932,
  genres: [
    'Science Fiction',
    'Dystopian'
  ],
  pages: 311,
  available: true,

```

08.Project only title and author fields:

```
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'
}
bookshop> |

```

"1984" to set available: false:

```

db.books.updateOne(
  { "title": "1984" },
  { $set: { "available": false } });

```

09.Update the book

```

> db.books.updateOne({"title":"1984"},{$set:{"available":false}});
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}

```

10. Increase the rating of "Brave New World" by +0.1:

```

db.books.updateOne(
  {"title": "Brave New World"},
  { $inc: { "rating": 0.1 } });

```

```

> db.books.updateOne({"title":"Brave New World"},{$inc:{"rating":0.1}});
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}

```

11. Add a new genre "Classic" to "The Great Gatsby":

```

db.books.updateOne(
  {"title": "The Great Gatsby"},
  { $addToSet: { "genres": "Classic" } });

```

```
> db.books.updateOne({"title":"The Great Gatsby"},{$addToSet:{"genres":"Classic"}});  
< {  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 1,  
  modifiedCount: 1,  
  upsertedCount: 0  
}
```

12.Sort books by published_year ascending:

```
db.books.find().sort({ "published_year": 1 });
```

>_MONGOSH

```
> db.books.find().sort({"published_year":1});
< {
  _id: ObjectId('681b9791a5c6bf49a239f847'),
  title: 'The Great Gatsby',
  author: 'F. Scott Fitzgerald',
  published_year: 1925,
  genres: [
    'Tragedy',
    'Classic'
  ],
  pages: 180,
  available: true,
  rating: 4.4
}
{
  _id: ObjectId('681b9791a5c6bf49a239f848'),
  title: 'Brave New World',
  author: 'Aldous Huxley',
  published_year: 1932,
  genres: [
    'Science Fiction',
    'Dystopian'
  ],
  pages: 311,
  available: true,
```