



1. Создайте новую базу данных Hogwarts
2. Внутри нее создайте коллекции Characters и Library

> _MONGOSH

> use Hogwarts

< already on db Hogwarts

> db.createCollection ('Characters')

< { ok: 1 }

> db.createCollection ('Library')



My Queries

Databases

Hogwarts

Characters

Library

admin

local

Hogwarts.Characters

Documents Aggregations Schema Indexes Validation

Filter Type a query: { field: 'value' }

Explain Reset Find </>

+ ADD DATA EXPORT DATA

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faculty: "Gryffindor"
patronus: "Stag"
book_id: "10"

Gryffindor

_id: ObjectId('6550bb99656542ca8654183b')
char_id: 2
fname: "Hermione"
lname: "Granger"
age: 11

3. Внутри коллекций создайте документы, которые будут повторять информацию из первого задания

>_MONGOSH

```
Atlas atlas-imn8bo-shard-0 [primary] Hogwarts> db.Characters.insertMany([  
  {char_id: 3, fname: 'Ron', lname: 'Weasley', age:11, faculty: 'Gryffindor', patronus: 'Jack Russell terrier', book_id:'8'},  
  {char_id: 4, fname: 'Draco', lname: 'Malfoy', age:11, faculty: 'Slytherin', book_id:'6'},  
  {char_id: 5, fname: 'Vincent', lname: 'Crabbe', age:11, faculty: 'Slytherin', book_id:'6'},  
  {char_id: 6, fname: 'Gregory', lname: 'Goyle', age:11, faculty: 'Slytherin', book_id:'1'},  
  {char_id: 7, fname: 'Albus', lname: 'Dumbledore', age:111, faculty: 'Gryffindor', patronus: 'Phoenix', book_id:'2'},  
  {char_id: 8, fname: 'Luna', lname: 'Lovegood', age:11, faculty: 'Rawenclaw', patronus: 'Hare', book_id:'2'},  
  {char_id: 9, fname: 'Cedric', lname: 'Diggory', age:14, faculty: 'Hufflepuff', patronus: 'Unknown', book_id:'2'},  
  {char_id: 10, fname: 'Severus', lname: 'Snape', age:55, faculty: 'Slytherin', patronus: 'Doe', book_id:'4'},  
  {char_id: 11, fname: 'Lord', lname: 'Voldemort', faculty: 'Slytherin', book_id:'5'},  
])
```

Hogwarts.Characters

0
DOCUMENTS 1
INDEXES

Documents

Aggregations

Schema

Indexes

Validation

Filter



Type a query: { field: 'value' }

Explain

Reset

Find



Options

ADD DATA

EXPORT DATA

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```
_id: ObjectId('6550be83656542ca86541843')
char_id: 10
fname: "Severus"
lname: "Snape"
age: 55
faculty: "Slytherin"
patronus: "Doe"
book_id: "4"
```



Doe

>_MONGOSH

```
'1': ObjectId("6550be83656542ca8654183d"),
'2': ObjectId("6550be83656542ca8654183e"),
'3': ObjectId("6550be83656542ca8654183f"),
'4': ObjectId("6550be83656542ca86541840"),
'5': ObjectId("6550be83656542ca86541841"),
'6': ObjectId("6550be83656542ca86541842"),
'7': ObjectId("6550be83656542ca86541843"),
'8': ObjectId("6550be83656542ca86541844")
}
}
```

Atlas atlas-imm8bo-shard-0 [primary] Hogwarts>

3. Здесь и на неподписанных скринах далее я продолжаю заводить данные "кусками", тк у меня все плохо вмещается на экран

My Queries

Databases

Search

Hogwarts

- Characters
- Library

admin

local

Hogwarts.Library

0 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Indexes Validation

Filter Type a query: { field: 'value' }

Explain

Reset

Find

</>

Options

ADD DATA

EXPORT DATA

1 - 1 of 1



`{`
 `_id`: `ObjectId('6550bff3656542ca86541846')`
 `lib_id`: 1
 `char_id`: 6
 `book_name`: "Hogwarts:A History"
 `start_date`: "2010-10-20"
 `end_date`: "2020-10-20"
 `book_id`: "1"
`}`



_MONGOSH



```
}
}
db.Library.insertMany([
  {lib_id: 1, char_id: 6, book_name: 'Hogwarts:A History', start_date:'2010-10-20', end_date: '2020-10-20', book_id:'1'}}])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("6550bff3656542ca86541846")
  }
}
atlas atlas-imn8bo-shard-0 [primary] Hogwarts
```



My Queries

Databases



Search

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Type a query: { field: 'value' }

Explain

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Find



Options

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```
_id: ObjectId('6550bff3656542ca86541846')
lib_id: 1
char_id: 6
book_name: "Hogwarts:A History"
start_date: "2010-10-20"
```

>_MONGOSH

```
db.Library.insertMany([
  {lib_id: 2, char_id: 7, book_name: 'Quidditch Through The Ages', start_date:'2010-12-20', end_date: '2020-11-20', book_id:2},
  {lib_id: 3, char_id: 9, book_name: 'The Lockhart Collection', start_date:'2015-12-20', end_date: '2030-12-20', book_id:3},
  {lib_id: 4, char_id: 10, book_name: 'Moste Potente Potions', start_date:'2001-01-20', end_date: '2002-01-20', book_id:4},
  {lib_id: 5, char_id: 11, book_name: 'The Life And Lies Of Albus Dumbledore', start_date:'2018-07-20', end_date: '2028-07-20', book_id:5},
  {lib_id: 6, char_id: 4, book_name: 'Fantastic Beasts And Where To Find Them', start_date:'2010-10-20', end_date: '2020-10-20', book_id:6},
  {lib_id: 7, char_id: 13, book_name: 'The Tales Of Beadle The Bard', start_date:'2003-03-20', end_date: '2004-03-20', book_id:7},
  {lib_id: 8, char_id: 3, book_name: 'Advanced Potion-Making', start_date:'2003-05-20', end_date: '2006-05-20', book_id:8},
  {lib_id: 9, char_id: 2, book_name: 'A History Of Magic', start_date:'2012-12-20', end_date: '2022-12-20', book_id:9},
  {lib_id: 10, char_id: 1, book_name: 'Magical Water Plants Of The Highland Rocks', start_date:'2006-06-20', end_date: '2010-06-20', book_id:10},
  {lib_id: 11, char_id: 8, book_name: 'Quidditch Through The Ages', start_date:'2010-11-20', end_date: '2020-11-20', book_id:2},
  {lib_id: 12, char_id: 12, book_name: 'Magical Water Plants Of The Highland Rocks', start_date:'2010-11-20', end_date: '2020-10-20', book_id:10},
  {lib_id: 13, char_id: 5, book_name: 'Fantastic Beasts And Where To Find Them', start_date:'2006-06-20', end_date: '2010-01-20', book_id:6}])
```




My Queries

Databases



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Type a query: { field: 'value' }

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end_date: "2020-11-20"
book_id: 2

▶ `_id: ObjectId('6550c517656542ca86541848')`
`lib_id: 3`
`char_id: 9`

6550c517656542ca86541848



>_MONGOSH

> db.Library.insertMany([

```
{lib_id: 2, char_id: 7, book_name: 'Quidditch Through The Ages', start_date:'2010-12-20', end_date: '2020-11-20', book_id:2},  
{lib_id: 3, char_id: 9, book_name: 'The Lockhart Collection', start_date:'2015-12-20', end_date: '2030-12-20', book_id:3},  
{lib_id: 4, char_id: 10, book_name: 'Moste Potente Potions', start_date:'2001-01-20', end_date: '2002-01-20', book_id:4},  
{lib_id: 5, char_id: 11, book_name: 'The Life And Lies Of Albus Dumbledore', start_date:'2018-07-20', end_date: '2028-07-20', book_id:5},  
{lib_id: 6, char_id: 4, book_name: 'Fantastic Beasts And Where To Find Them', start_date:'2010-10-20', end_date: '2020-10-20', book_id:6}])
```

```
< {  
  acknowledged: true,  
  insertedIds: {  
    '0': ObjectId("6550c517656542ca86541847"),  
    '1': ObjectId("6550c517656542ca86541848"),  
    '2': ObjectId("6550c517656542ca86541849"),  
    '3': ObjectId("6550c517656542ca8654184a"),  
    '4': ObjectId("6550c517656542ca8654184b")
```

Documents
Hogwarts.Library

My Queries

Databases



Search

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Type a query: { field: 'value' }

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```
end_date: "2020-11-20"  
book_id: 2
```

```
_id: ObjectId('6550c517656542ca86541848')  
lib_id: 3  
char_id: 2
```

>_MONGOSH



```
'1': ObjectId("6550c517656542ca86541848"),  
'2': ObjectId("6550c517656542ca86541849"),  
'3': ObjectId("6550c517656542ca8654184a"),  
'4': ObjectId("6550c517656542ca8654184b")  
}  
}
```

Atlas atlas-imn8bo-shard-0 [primary] Hogwarts> db.Library.insertMany([

```
{lib_id: 7, char_id: 13, book_name: 'The Tales Of Beadle The Bard', start_date:'2003-03-20', end_date: '2004-03-20', book_id:7},  
{lib_id: 8, char_id: 3, book_name: 'Advanced Potion-Making', start_date:'2003-05-20', end_date: '2006-05-20', book_id:8},  
{lib_id: 9, char_id: 2, book_name: 'A History Of Magic', start_date:'2012-12-20', end_date: '2022-12-20', book_id:9},  
{lib_id: 10, char_id: 1, book_name: 'Magical Water Plants Of The Highland Rocks', start_date:'2006-06-20', end_date: '2010-06-20', book_id:10},  
{lib_id: 11, char_id: 8, book_name: 'Quidditch Through The Ages', start_date:'2010-11-20', end_date: '2020-11-20', book_id:2},  
{lib_id: 12, char_id: 12, book_name: 'Magical Water Plants Of The Highland Rocks', start_date:'2010-11-20', end_date: '2020-10-20', book_id:10},  
{lib_id: 13, char_id: 5, book_name: 'Fantastic Beasts And Where To Find Them', start_date:'2006-06-20', end_date: '2010-01-20', book_id:6}]
```



My Queries

>_MONGOSH

> db.Characters.find({age: {\$gt:10, \$lt:20}})

```
< {  
  _id: ObjectId("6550bb99656542ca8654183a"),  
  char_id: 1,  
  fname: 'Harry',  
  lname: 'Potter',  
  age: 11,  
  faculty: 'Gryffindor',  
  patronus: 'Stag',  
  book_id: '10'  
}  
{  
  _id: ObjectId("6550bb99656542ca8654183b"),  
  char_id: 2,  
  fname: 'Hermione',  
  lname: 'Granger',  
  age: 11,  
  faculty: 'Gryffindor',  
  patronus: 'Otter',  
  book_id: '9'  
}  
{  
  _id: ObjectId("6550be83656542ca8654183c"),  
  char_id: 3,  
  fname: 'Ron',  
  lname: 'Weasley',
```

4. Выведите всех персонажей, чей возраст больше 10, но меньше 20


```
> db.Characters.find({age: {$ne:11, $lt:30}})
```

```
< {
```

```
  _id: ObjectId("6550be83656542ca86541842"),
```

```
  char_id: 9,
```

```
  fname: 'Cedric',
```

```
  lname: 'Diggory',
```

```
  age: 14,
```

```
  faculty: 'Hufflepuff',
```

```
  patronus: 'Unknown',
```

```
  book_id: '2'
```

```
}
```

5. Выведите всех персонажей, чей возраст меньше 30 и не равен 11

▼ admin

▶ local

▶ `_id: ObjectId('6550bb99656542ca8654183a')`
`char_id: 1`
`fname: "Harry"`
`lname: "Potter"`
`age: 12`
`faculty: "Gryffindor"`
`patronus: "Stag"`
`book_id: "10"`



10

`_id: ObjectId('6550bb99656542ca8654183b')`
`char_id: 2`
`fname: "Hermione"`

>_MONGOSH



> db.Characters.updateMany ({} , {\$inc: {age: 1 }})

< {
 acknowledged: true,
 insertedId: null,
 matchedCount: 11,
 modifiedCount: 11,
 upsertedCount: 0
}

6. Добавьте всем персонажам 1 год к возрасту

Atlas atlas-imm8bo-shard-0 [primary] Hogwarts>

>_MONGOSH

< DeprecationWarning: Collection.count() is deprecated. Use countDocuments or estimatedDocumentCount.

< 0

> db.Characters.count({age: {\$gt:11}})

< 10

Atlas atlas-imn8bo-shard-0 [primary] Hogwarts>

7. Посчитайте общее количество персонажей, чей возраст больше
11


```
> db.Library.deleteMany(  
  {book_name: 'Quidditch Through The Ages'})  
< {  
  acknowledged: true,  
  deletedCount: 2  
}
```

8. Удалите информацию о книге 'Quidditch Through The Ages'

Atlas atlas-imn8bo-shard-0 [primary] Hogwarts>

```
> db.Library.find({book_name: {$regex: 'The'}})
```

```
< {
```

```
  _id: ObjectId("6550c517656542ca86541848"),
```

```
  lib_id: 3,
```

```
  char_id: 9,
```

```
  book_name: 'The Lockhart Collection',
```

```
  start_date: '2015-12-20',
```

```
  end_date: '2030-12-20',
```

```
  book_id: 3
```

```
}
```

```
{
```

```
  _id: ObjectId("6550c517656542ca8654184a"),
```

```
  lib_id: 5,
```

```
  char_id: 11,
```

```
  book_name: 'The Life And Lies Of Albus Dumbledore',
```

```
  start_date: '2018-07-20',
```

```
  end_date: '2028-07-20',
```

```
  book_id: 5
```

```
}
```

```
{
```

```
  _id: ObjectId("6550c517656542ca8654184b"),
```

```
  lib_id: 6,
```

```
  char_id: 4,
```

```
  book_name: 'Fantastic Beasts And Where To Find Them',
```

```
  start_date: '2010-10-20',
```

```
  end_date: '2020-10-20',
```

```
  book_id: 6
```

9. Выведите информацию обо всех в книгах, в названиях которых содержится слово The в любом месте