	Lehrveranstaltung	Databases and Information Systems 2020		
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	STiNE-Gruppe 14	Simon Weidmann, Aram Yesildeniz		
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5.1 Tutorial

Insert

Viewing Collection: films

New Document
New Index

Simple
Advanced

String
Q Find


Delete all 4 documents retrieved

_id	title	year	genre	actors	releases
5ee4bda1e7c9ffae0cac32fa	Star Trek Into Darkness	2013	Action,Adventure,Sci-Fi	Pine, Chris,Quinto, Zachary,Saldana, Zoe	<pre>{ "releases": [{ "date": "2013-05-17", "country": "USA", "gross": 380811751 }] }</pre>
5ee4be76e7c9ffae0cac32fb	Iron Man 3	2013	Action,Adventure,Sci-Fi	Downey Jr., Robert,Paltrow, Gwyneth	
5ee4bea2e7c9ffae0cac32fc	This Means War	2011	Action,Comedy,Romance	Pine, Chris,Witherspoon, Reese,Hardy, Tom	<pre>{ "releases": [{ "date": "2011-04-15", "country": "USA", "gross": 109675000 }] }</pre>
5ee4beb9e7c9ffae0cac32fd	The Amazing Spider-Man 2	2014	Action,Adventure,Fantasy	Stone, Emma,Woodley, Shailene	

Querying

Example of one query:

```
DIS_Blatt5_Archive — docker run -it --network mongo_default --rm mongo mongo --host mongo -u root -p password — 194x20
> db.film.find({title: "Iron Man 3"})
{ "_id" : ObjectId("5ee4be76e7c9ffae0cac32fb"), "title" : "Iron Man 3", "year" : 2013, "genre" : [ "Action", "Adventure", "Sci-Fi" ], "actors" : [ "Downey Jr., Robert", "Paltrow, Gwyneth" ] }
> db.film.findOne({title: "Iron Man 3"})
{
  "_id" : ObjectId("5ee4be76e7c9ffae0cac32fb"),
  "title" : "Iron Man 3",
  "year" : 2013,
  "genre" : [
    "Action",
    "Adventure",
    "Sci-Fi"
  ],
  "actors" : [
    "Downey Jr., Robert",
    "Paltrow, Gwyneth"
  ]
}
```

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Update

```
> db.film.update(
... {title: "Star Trek Into Darkness"},
... {$set: {rating: 6.4}}
... )
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.film.findOne(title: "Star Trek Into Darkness")
{
  "_id" : ObjectId("5ee4bda1e7c9ffae8cac32fa"),
  "title" : "Star Trek Into Darkness",
  "year" : 2013,
  "genre" : [
    "Action",
    "Adventure",
    "Sci-Fi"
  ],
  "actors" : [
    "Pine, Chris",
    "Quinto, Zachary",
    "Saldana, Zoe"
  ],
  "releases" : [
    {
      "country" : "USA",
      "date" : ISODate("2013-05-17T00:00:00Z"),
      "prerelease" : true
    },
    {
      "country" : "Germany",
      "date" : ISODate("2013-05-16T00:00:00Z"),
      "prerelease" : false
    }
  ],
  "rating" : 6.4
}
```

Delete

```
DIS_Blatt5_Archive — docker run -it --network mongo_default --rm mongo mongo --host mongo -u roo...
> db.film.find(title: /T/)
{ "_id" : ObjectId("5ee4bda1e7c9ffae8cac32fa"), "title" : "This Means War", "year" : 2011, "genre" :
[ "Action", "Comedy", "Romance" ], "actors" : [ "Pine, Chris", "Witherspoon, Reese", "Hardy, Tom" ],
"releases" : [ { "country" : "USA", "date" : ISODate("2011-02-17T00:00:00Z"), "prerelease" : false },
{ "country" : "UK", "date" : ISODate("2011-03-01T00:00:00Z"), "prerelease" : true } ] }
{ "_id" : ObjectId("5ee4beb9e7c9ffae8cac32fd"), "title" : "The Amazing Spider-Man 2", "year" : 2014,
"genre" : [ "Action", "Adventure", "Fantasy" ], "actors" : [ "Stone, Emma", "Woodley, Shailene" ] }
> db.film.remove(title: /T/)
WriteResult({ "nRemoved" : 2 })
> db.film.find(title: /T/)
>
```

Indexing

Without index:

"executionTimeMillis" : 202

With index:

"executionTimeMillis" : 165

5.2 Movie mApp