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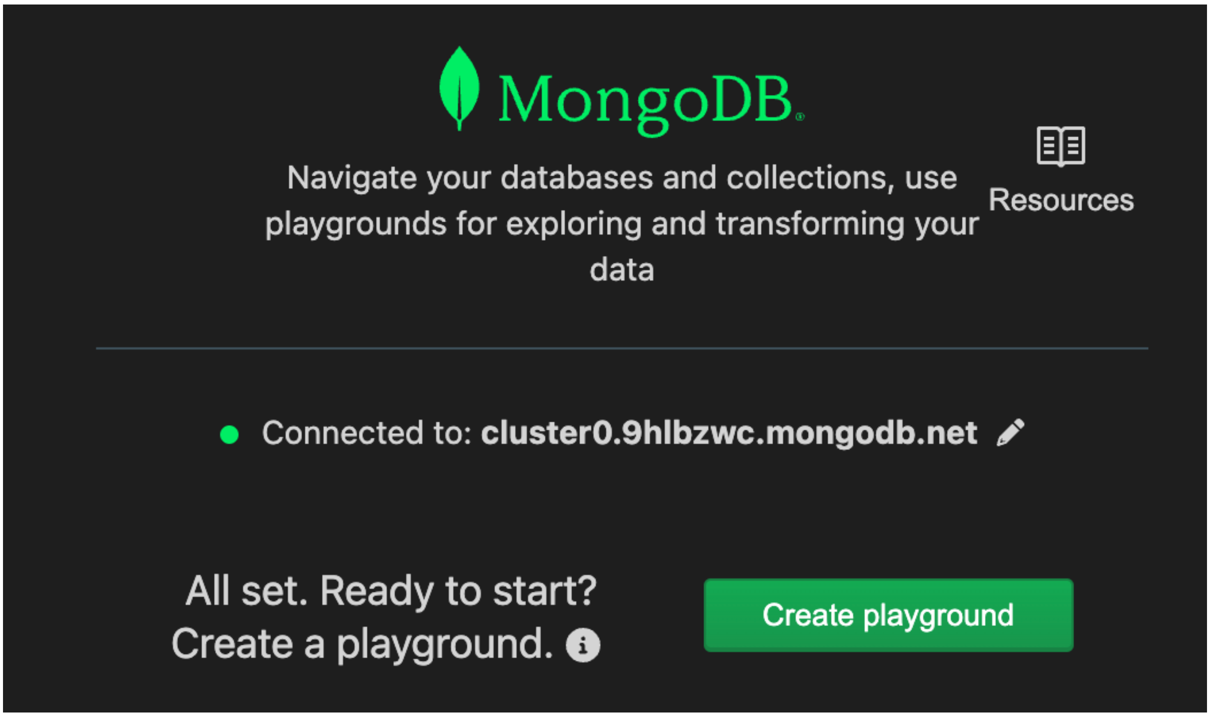
MongoDB
Praca na zajęciach

1.

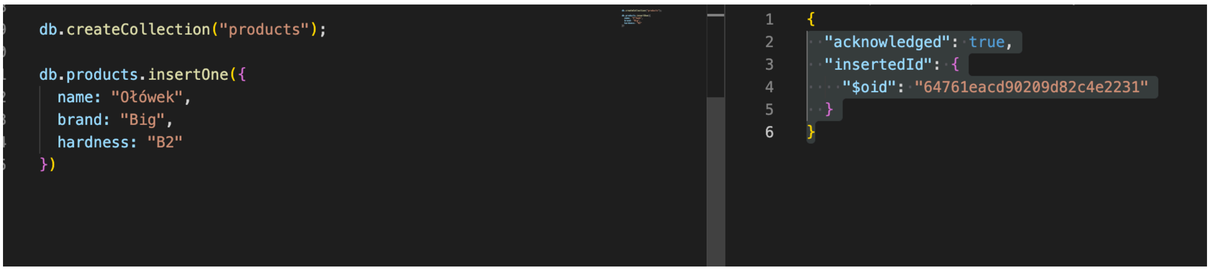


Navigate your databases and collections, use playgrounds for exploring and transforming your data

Connected to: **cluster0.9hlbzwc.mongodb.net**

All set. Ready to start? Create a playground.

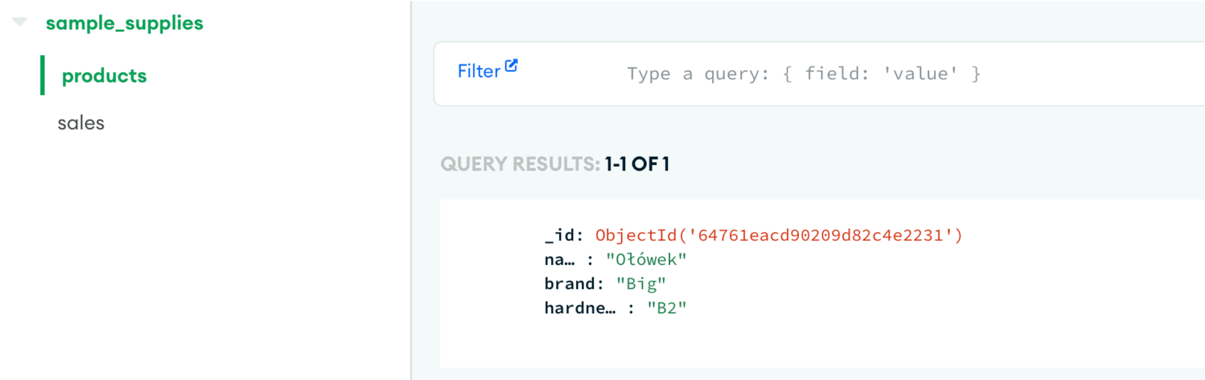
2. (korzystam z bazy sample_supplies, która została użyta również w zadaniu 3)



```
db.createCollection("products");

db.products.insertOne({
  name: "Ołówek",
  brand: "Big",
  hardness: "B2"
})
```

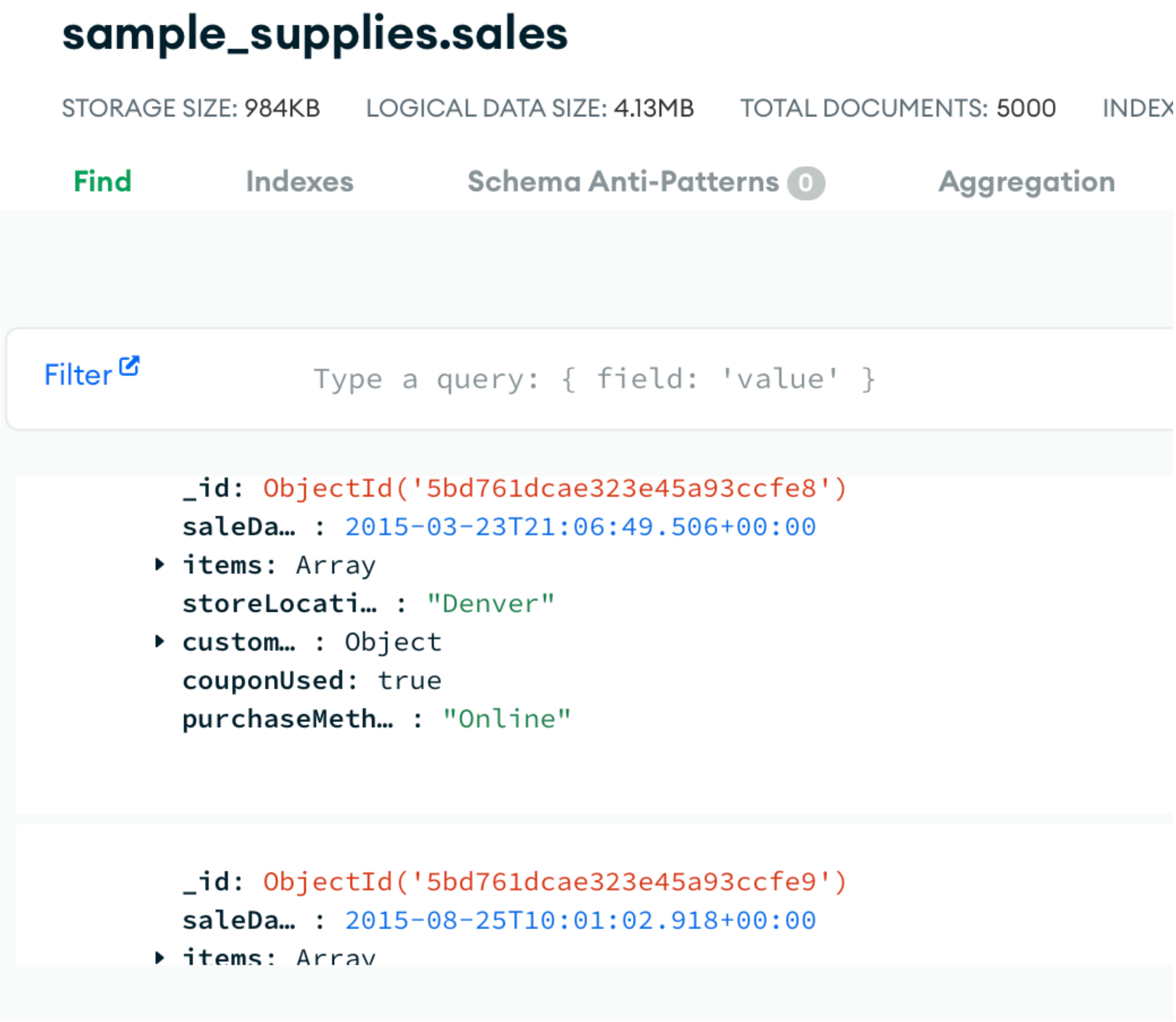
```
{
  "acknowledged": true,
  "insertedId": {
    "$oid": "64761eacd90209d82c4e2231"
  }
}
```



QUERY RESULTS: **1-1 OF 1**

```
_id: ObjectId('64761eacd90209d82c4e2231')
na… : "Ołówek"
brand: "Big"
hardne… : "B2"
```

3.

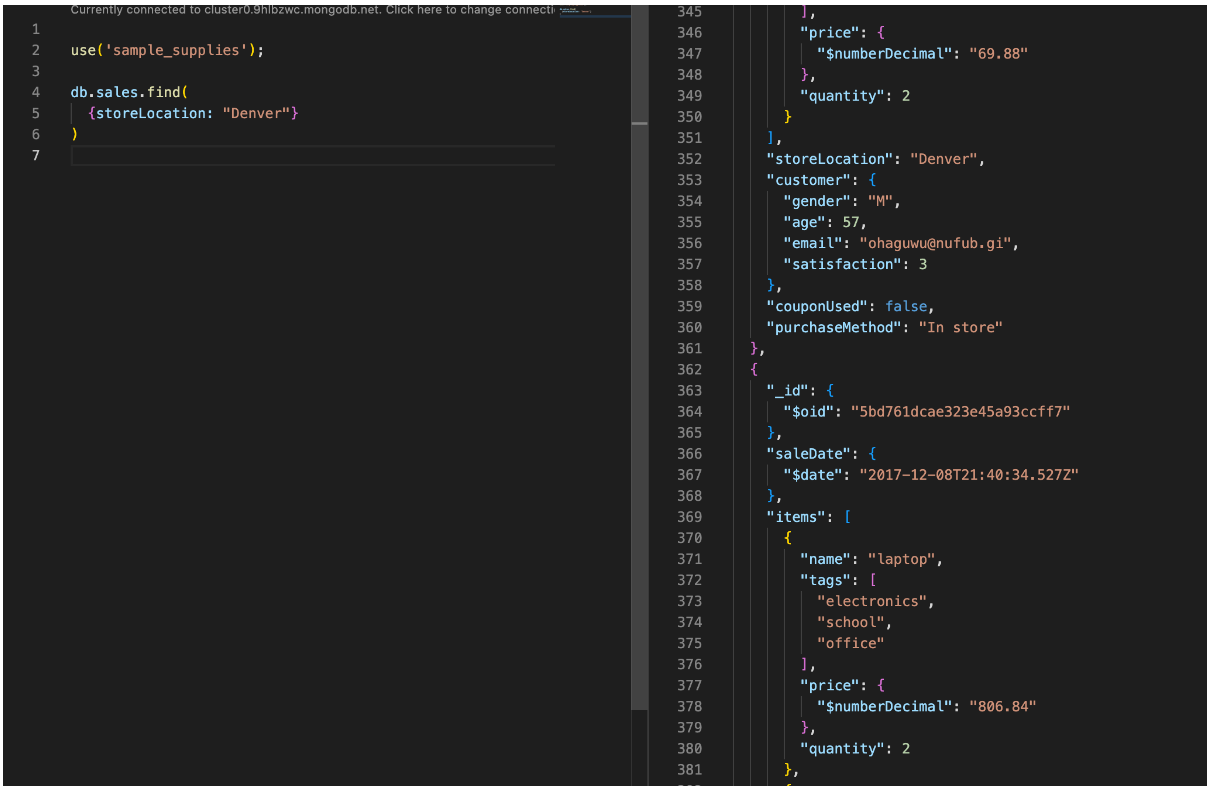


sample_supplies.sales

STORAGE SIZE: 984KB LOGICAL DATA SIZE: 4.13MB TOTAL DOCUMENTS: 5000 INDEX

```
_id: ObjectId('5bd761dcae323e45a93ccfe8')
  saleDa… : 2015-03-23T21:06:49.506+00:00
▸ items: Array
  storeLocati… : "Denver"
▸ custom… : Object
  couponUsed: true
  purchaseMeth… : "Online"

  _id: ObjectId('5bd761dcae323e45a93ccfe9')
  saleDa… : 2015-08-25T10:01:02.918+00:00
▸ items: Array
```



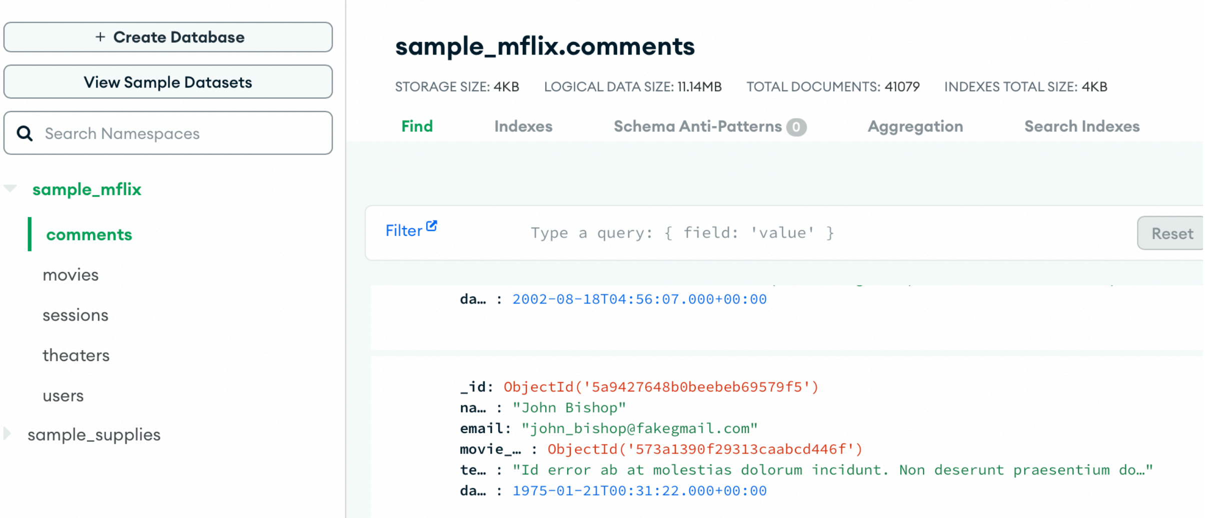
Currently connected to cluster0.9hlbzwc.mongodb.net. Click here to change connecti

```
use('sample_supplies');

db.sales.find(
  {storeLocation: "Denver"}
)
```

```
        ],
        "price": {
          "$numberDecimal": "69.88"
        },
        "quantity": 2
      }
    ],
    "storeLocation": "Denver",
    "customer": {
      "gender": "M",
      "age": 57,
      "email": "ohaguwu@nufub.gi",
      "satisfaction": 3
    },
    "couponUsed": false,
    "purchaseMethod": "In store"
  },
  {
    "_id": {
      "$oid": "5bd761dcae323e45a93ccff7"
    },
    "saleDate": {
      "$date": "2017-12-08T21:40:34.527Z"
    },
    "items": [
      {
        "name": "laptop",
        "tags": [
          "electronics",
          "school",
          "office"
        ],
        "price": {
          "$numberDecimal": "806.84"
        },
        "quantity": 2
      },
```

3.
Sample Movies:
Zawiera komentarze, filmy, kina oraz użytkowników.

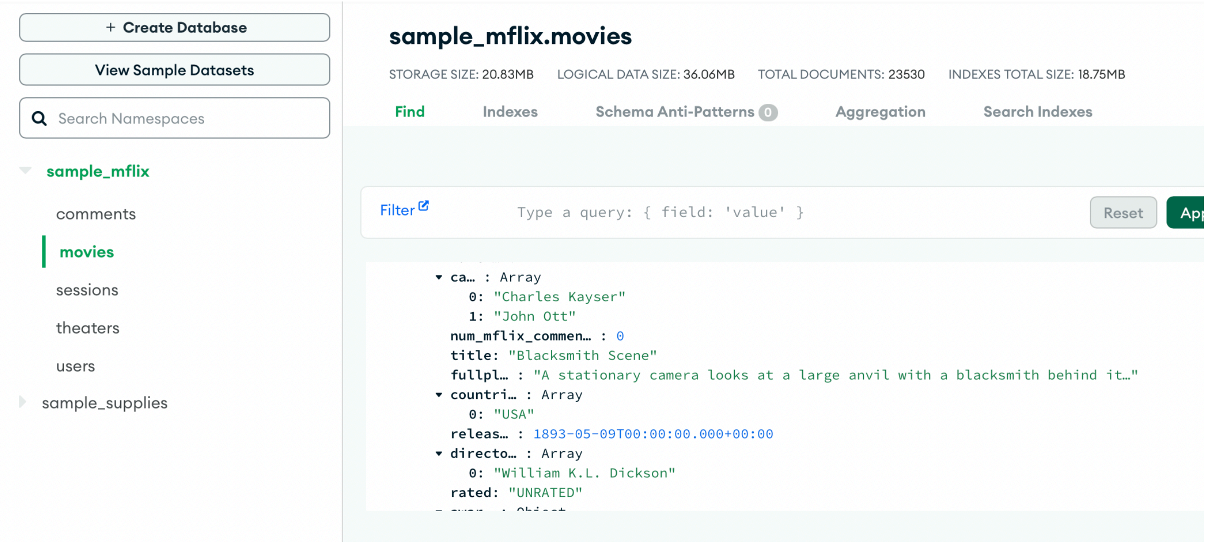


sample_mflix.comments

STORAGE SIZE: 4KB LOGICAL DATA SIZE: 11.14MB TOTAL DOCUMENTS: 41079 INDEXES TOTAL SIZE: 4KB

```
da… : 2002-08-18T04:56:07.000+00:00

_id: ObjectId('5a9427648b0beebeb69579f5')
na… : "John Bishop"
email: "john_bishop@fakegmail.com"
movie_… : ObjectId('573a1390f29313caabcd446f')
te… : "Id error ab at molestias dolorum incidunt. Non deserunt praesentium do…"
da… : 1975-01-21T00:31:22.000+00:00
```

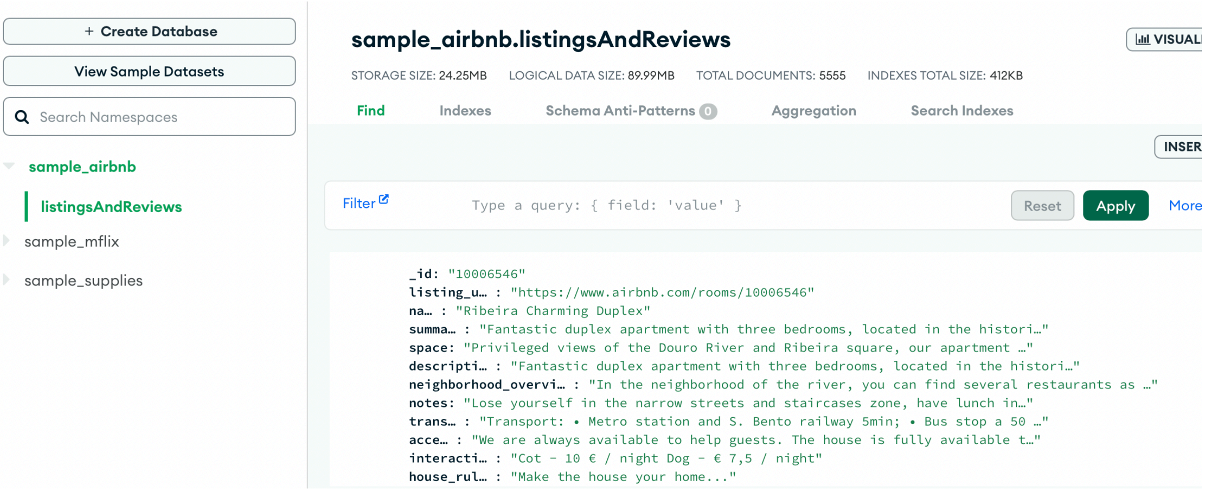


sample_mflix.movies

STORAGE SIZE: 20.83MB LOGICAL DATA SIZE: 36.06MB TOTAL DOCUMENTS: 23530 INDEXES TOTAL SIZE: 18.75MB

```
      ▾ ca… : Array
           0: "Charles Kayser"
           1: "John Ott"
         num_mflix_commen… : 0
         title: "Blacksmith Scene"
         fullpl… : "A stationary camera looks at a large anvil with a blacksmith behind it…"
      ▾ countri… : Array
           0: "USA"
         releas… : 1893-05-09T00:00:00.000+00:00
      ▾ directo… : Array
           0: "William K.L. Dickson"
         rated: "UNRATED"
```

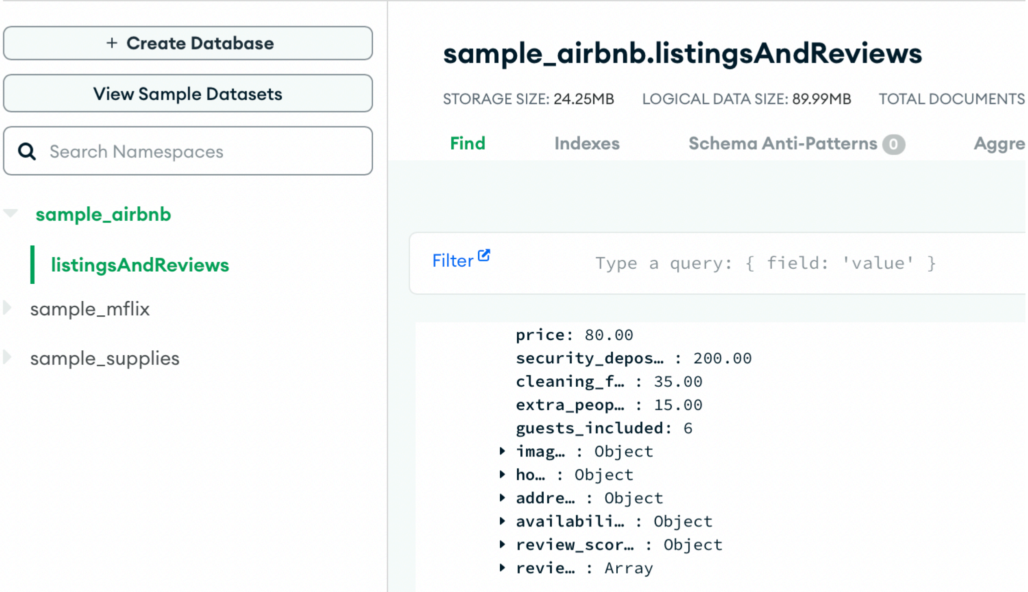
Airbnb



sample_airbnb.listingsAndReviews

STORAGE SIZE: 24.25MB LOGICAL DATA SIZE: 89.99MB TOTAL DOCUMENTS: 5555 INDEXES TOTAL SIZE: 412KB

```
_id: "10006546"
listing_u… : "https://www.airbnb.com/rooms/10006546"
na… : "Ribeira Charming Duplex"
summa… : "Fantastic duplex apartment with three bedrooms, located in the histori…"
space: "Privileged views of the Douro River and Ribeira square, our apartment …"
descripti… : "Fantastic duplex apartment with three bedrooms, located in the histori…"
neighborhood_overvi… : "In the neighborhood of the river, you can find several restaurants as …"
notes: "Lose yourself in the narrow streets and staircases zone, have lunch in…"
trans… : "Transport: • Metro station and S. Bento railway 5min; • Bus stop a 50 …"
acce… : "We are always available to help guests. The house is fully available t…"
interacti… : "Cot - 10 € / night Dog - € 7,5 / night"
house_rul… : "Make the house your home..."
```



sample_airbnb.listingsAndReviews

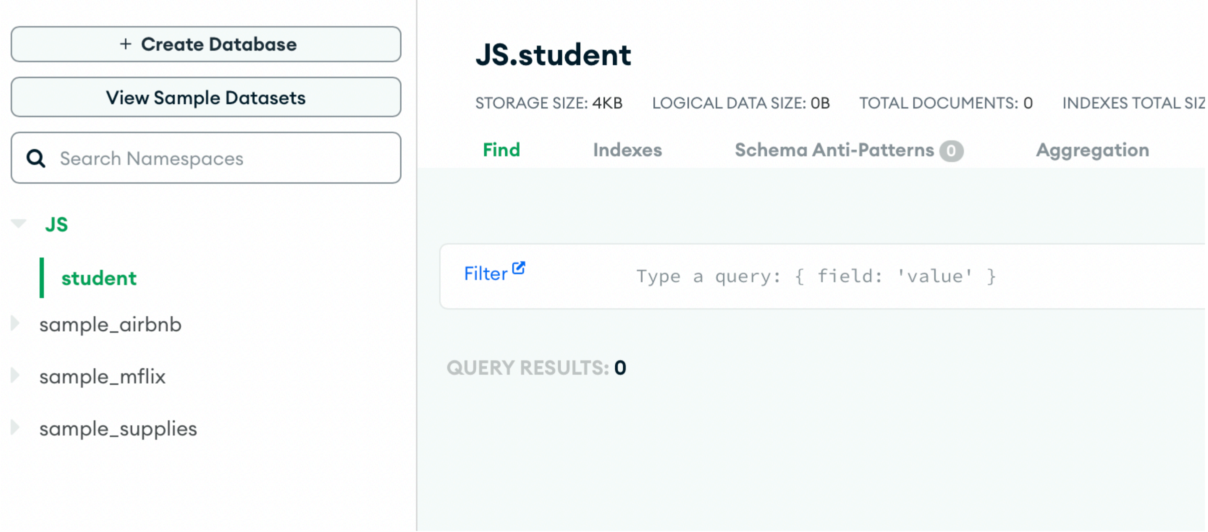
STORAGE SIZE: 24.25MB LOGICAL DATA SIZE: 89.99MB TOTAL DOCUMENTS

```
   price: 80.00
   security_depos… : 200.00
   cleaning_f… : 35.00
   extra_peop… : 15.00
   guests_included: 6
 ▸ imag… : Object
 ▸ ho… : Object
 ▸ addre… : Object
 ▸ availabili… : Object
 ▸ review_scor… : Object
 ▸ revie… : Array
```

Yelp został pominięty.

5.

Stworzenie bazy danych:



JS.student

STORAGE SIZE: 4KB LOGICAL DATA SIZE: 0B TOTAL DOCUMENTS: 0 INDEXES TOTAL SIZ

Type a query: { field: 'value' }

QUERY RESULTS: 0

Student:

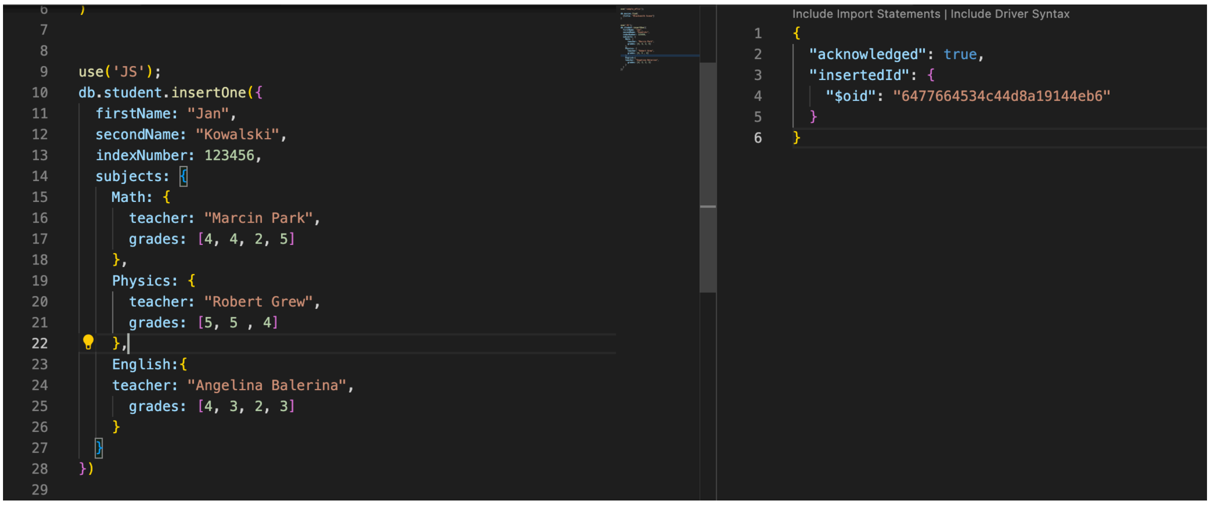
-imię i nazwisko

-numer indeksu

-przedmioty:

 * nauczyciel przedmiotu

 * oceny z przedmiotu

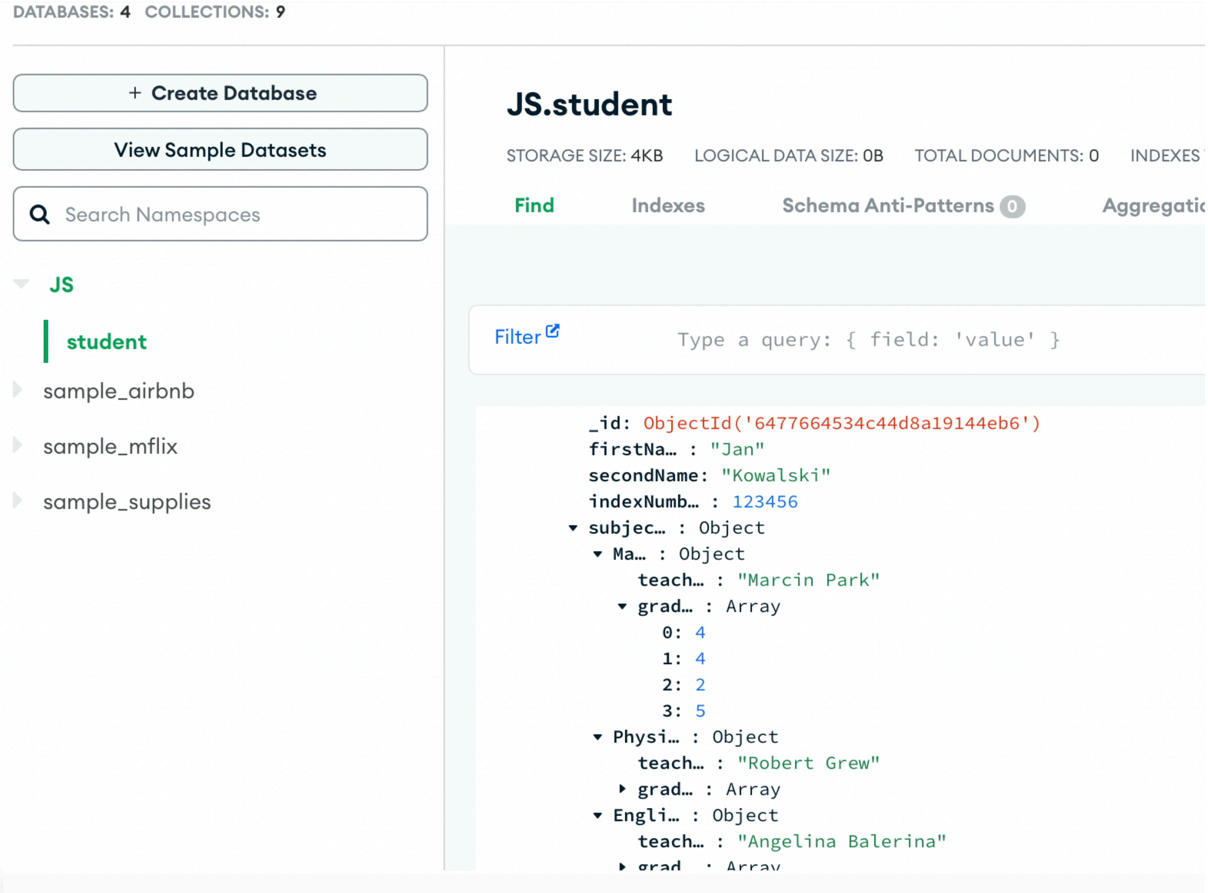


```
)


use('JS');
db.student.insertOne({
  firstName: "Jan",
  secondName: "Kowalski",
  indexNumber: 123456,
  subjects: {
    Math: {
      teacher: "Marcin Park",
      grades: [4, 4, 2, 5]
    },
    Physics: {
      teacher: "Robert Grew",
      grades: [5, 5 , 4]
    },
    English:{
    teacher: "Angelina Balerina",
      grades: [4, 3, 2, 3]
    }
  }
})

```

```
{
  "acknowledged": true,
  "insertedId": {
    "$oid": "6477664534c44d8a19144eb6"
  }
}
```

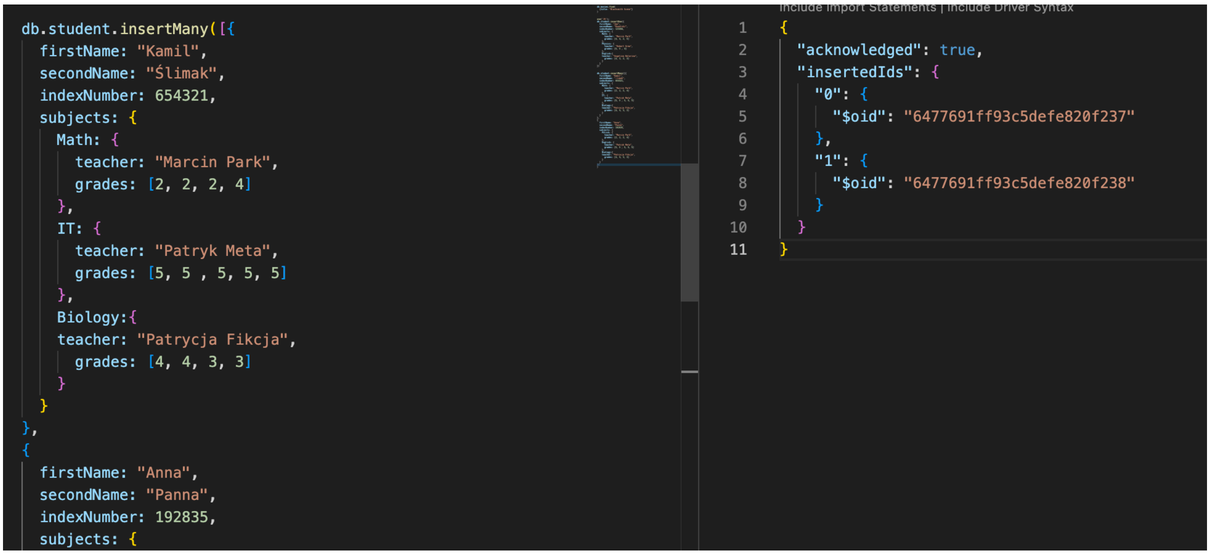


JS.student

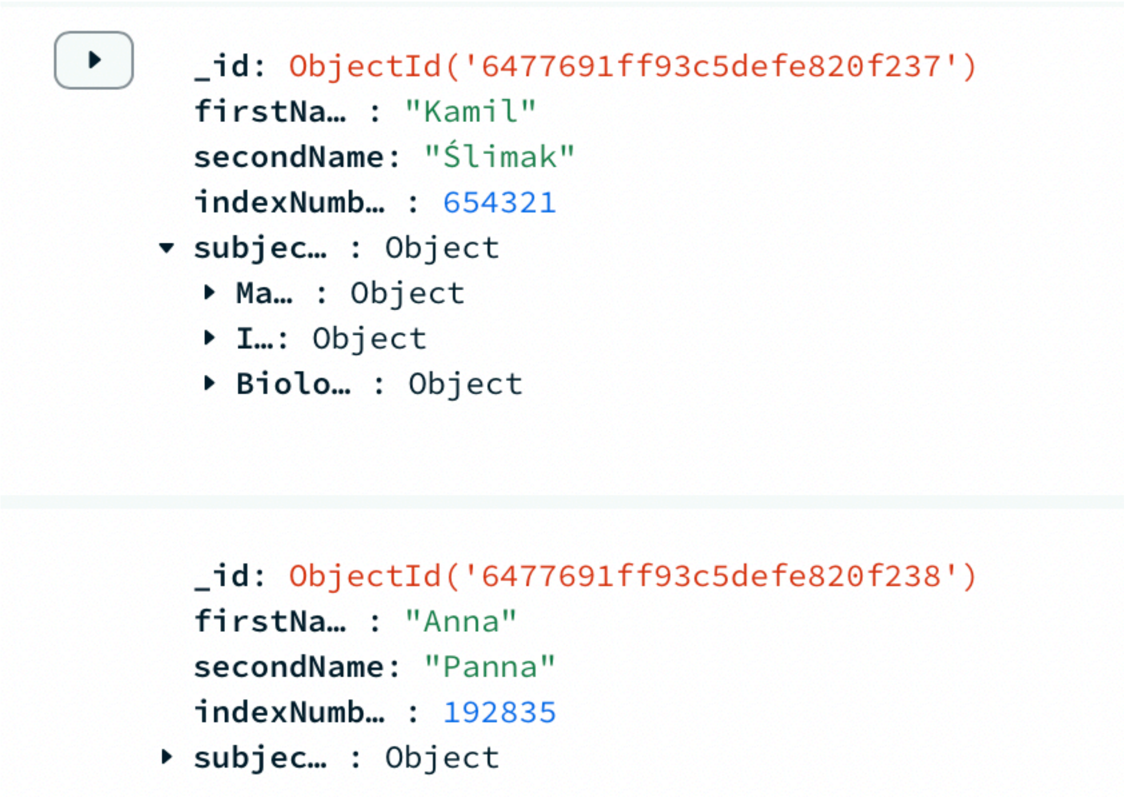
STORAGE SIZE: 4KB LOGICAL DATA SIZE: 0B TOTAL DOCUMENTS: 0 INDEXES

Type a query: { field: 'value' }

```
    _id: ObjectId('6477664534c44d8a19144eb6')
    firstNa… : "Jan"
    secondName: "Kowalski"
    indexNumb… : 123456
  ▾ subjec… : Object
    ▾ Ma… : Object
        teach… : "Marcin Park"
      ▾ grad… : Array
          0: 4
          1: 4
          2: 2
          3: 5
    ▾ Physi… : Object
        teach… : "Robert Grew"
      ▸ grad… : Array
    ▾ Engli… : Object
        teach… : "Angelina Balerina"
      ▸ grad… : Array
```

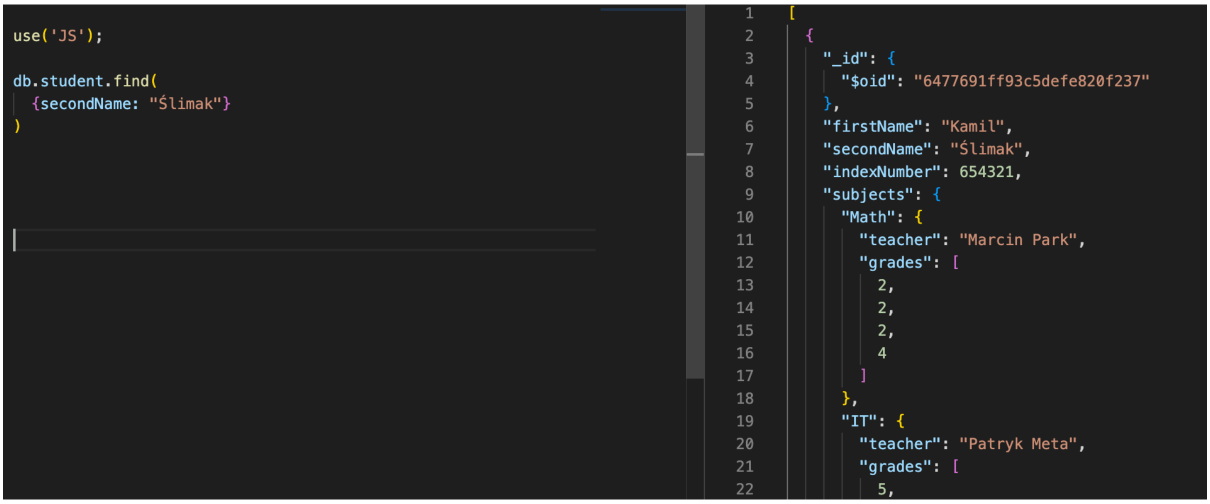

```
db.student.insertMany([{
  firstName: "Kamil",
  secondName: "Ślimak",
  indexNumber: 654321,
  subjects: {
    Math: {
      teacher: "Marcin Park",
      grades: [2, 2, 2, 4]
    },
    IT: {
      teacher: "Patryk Meta",
      grades: [5, 5 , 5, 5, 5]
    },
    Biology:{
    teacher: "Patrycja Fikcja",
      grades: [4, 4, 3, 3]
    }
  }
},
{
  firstName: "Anna",
  secondName: "Panna",
  indexNumber: 192835,
  subjects: {
```

```
{
  "acknowledged": true,
  "insertedIds": {
    "0": {
      "$oid": "6477691ff93c5defe820f237"
    },
    "1": {
      "$oid": "6477691ff93c5defe820f238"
    }
  }
}
```



```
_id: ObjectId('6477691ff93c5defe820f237')
firstNa… : "Kamil"
secondName: "Ślimak"
indexNumb… : 654321
▼ subjec… : Object
  ▶ Ma… : Object
  ▶ I…: Object
  ▶ Biolo… : Object
```

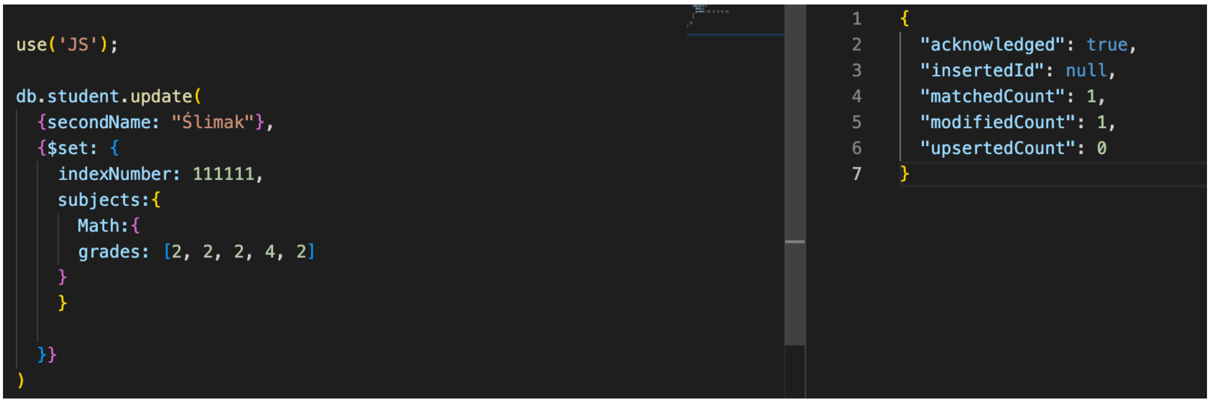
```
_id: ObjectId('6477691ff93c5defe820f238')
firstNa… : "Anna"
secondName: "Panna"
indexNumb… : 192835
▶ subjec… : Object
```



```
use('JS');

db.student.find(
  {secondName: "Ślimak"}
)
```

```
[
  {
    "_id": {
      "$oid": "6477691ff93c5defe820f237"
    },
    "firstName": "Kamil",
    "secondName": "Ślimak",
    "indexNumber": 654321,
    "subjects": {
      "Math": {
        "teacher": "Marcin Park",
        "grades": [
          2,
          2,
          2,
          4
        ]
      },
      "IT": {
        "teacher": "Patryk Meta",
        "grades": [
          5,
```

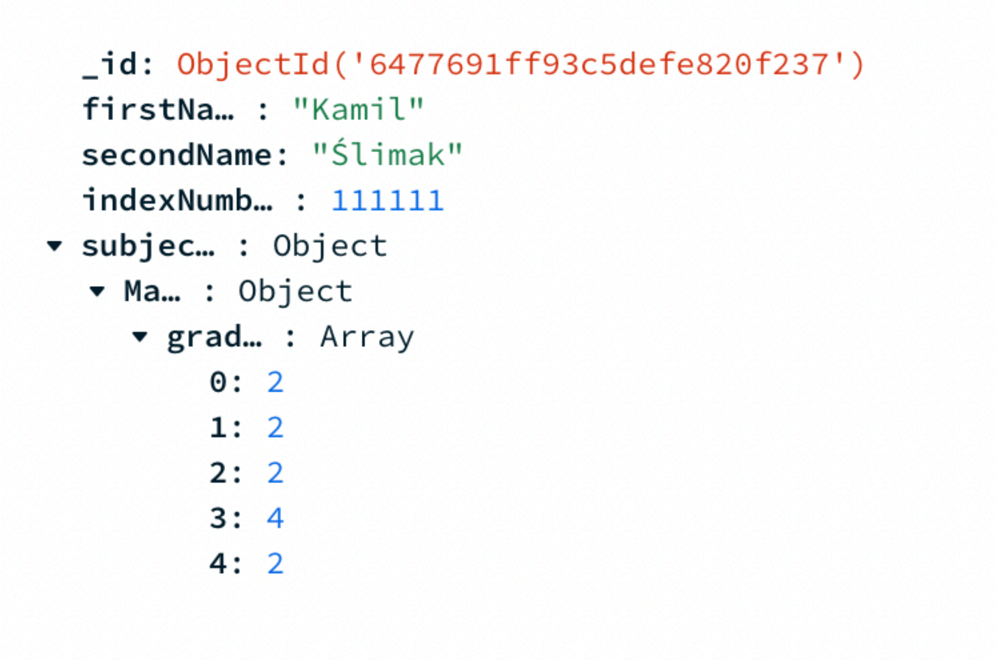


```
use('JS');

db.student.update(
  {secondName: "Ślimak"},
  {$set: {
    indexNumber: 111111,
    subjects:{
      Math:{
      grades: [2, 2, 2, 4, 2]
    }
    }

  }}
)
```

```
{
  "acknowledged": true,
  "insertedId": null,
  "matchedCount": 1,
  "modifiedCount": 1,
  "upsertedCount": 0
}
```



```
  _id: ObjectId('6477691ff93c5defe820f237')
  firstNa… : "Kamil"
  secondName: "Ślimak"
  indexNumb… : 111111
▾ subjec… : Object
  ▾ Ma… : Object
    ▾ grad… : Array
        0: 2
        1: 2
        2: 2
        3: 4
        4: 2
```