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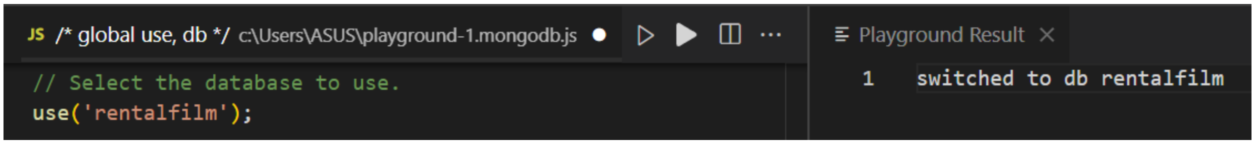
Kelas : TI – 21 – PA

NPM : 212310014

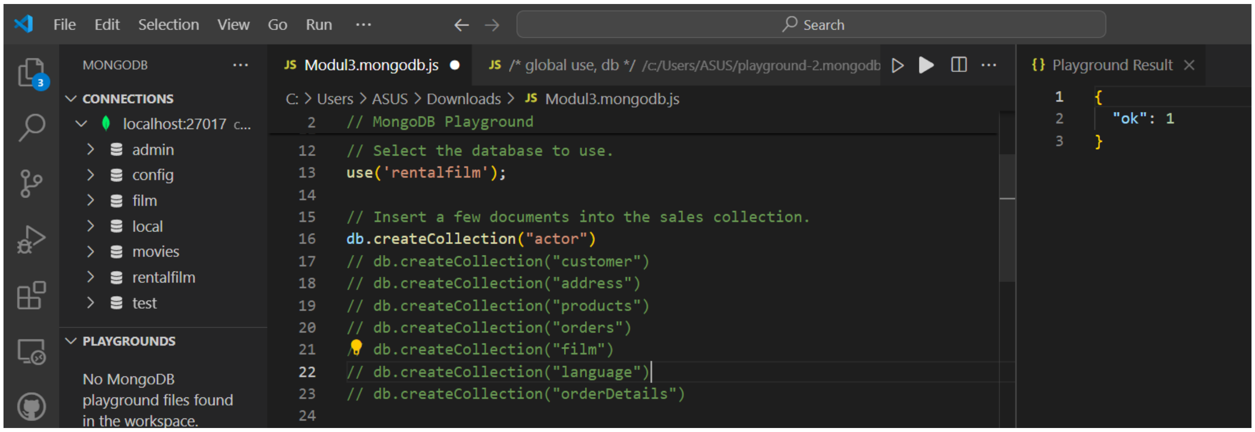
Lab. Basis Data Lanjut Modul 3

1. Buatlah database rentalfilm di mongoDB seperti yang telah dilakukan di pertemuan pertama.


JS /* global use, db */ c:\Users\ASUS\playground-1.mongodb.js
Playground Result

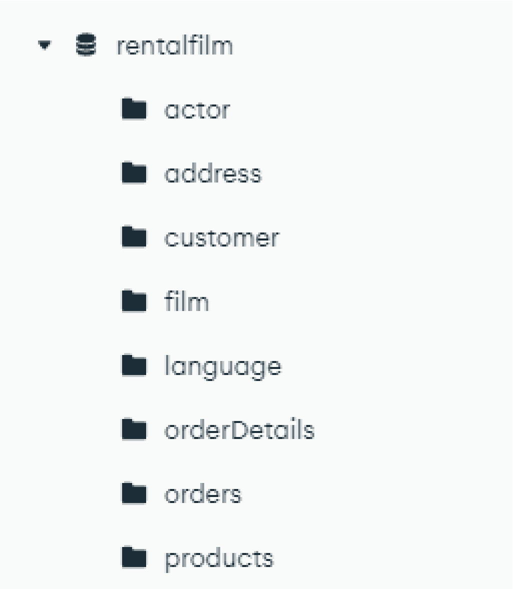
```
// Select the database to use.
use('rentalfilm');
```

```
switched to db rentalfilm
```


File
Edit
Selection
View
Go
Run
Search
MONGODB
CONNECTIONS
localhost:27017 c...
admin
config
film
local
movies
rentalfilm
test
PLAYGROUNDS
No MongoDB playground files found in the workspace.
JS Modul3.mongodb.js
JS /* global use, db */ /c:/Users/ASUS/playground-2.mongodb
C: > Users > ASUS > Downloads > JS Modul3.mongodb.js
{} Playground Result

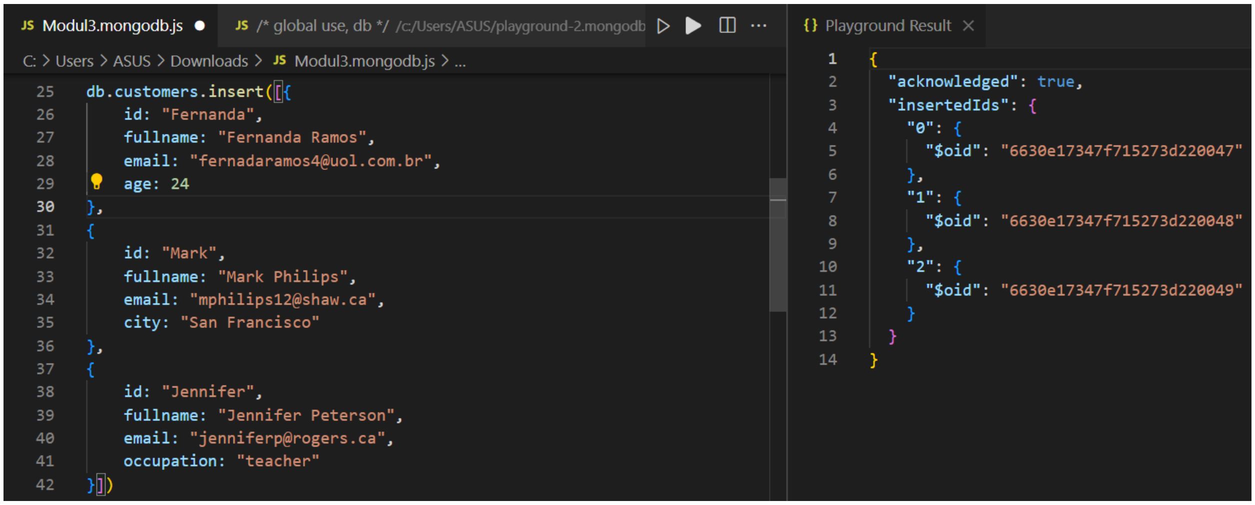
```
// MongoDB Playground
// Select the database to use.
use('rentalfilm');

// Insert a few documents into the sales collection.
db.createCollection("actor")
// db.createCollection("customer")
// db.createCollection("address")
// db.createCollection("products")
// db.createCollection("orders")
// db.createCollection("film")
// db.createCollection("language")
// db.createCollection("orderDetails")
```

```
{
  "ok": 1
}
```



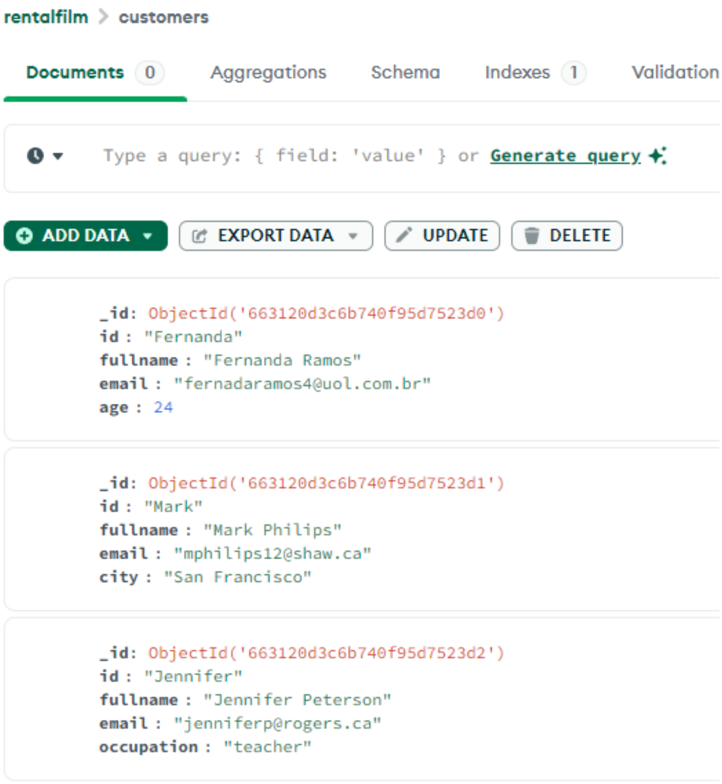
- rentalfilm
  - actor
  - address
  - customer
  - film
  - language
  - orderDetails
  - orders
  - products

2. Masukkan tiga buah data di setiap collections pada database rentalfilm menggunakan query.

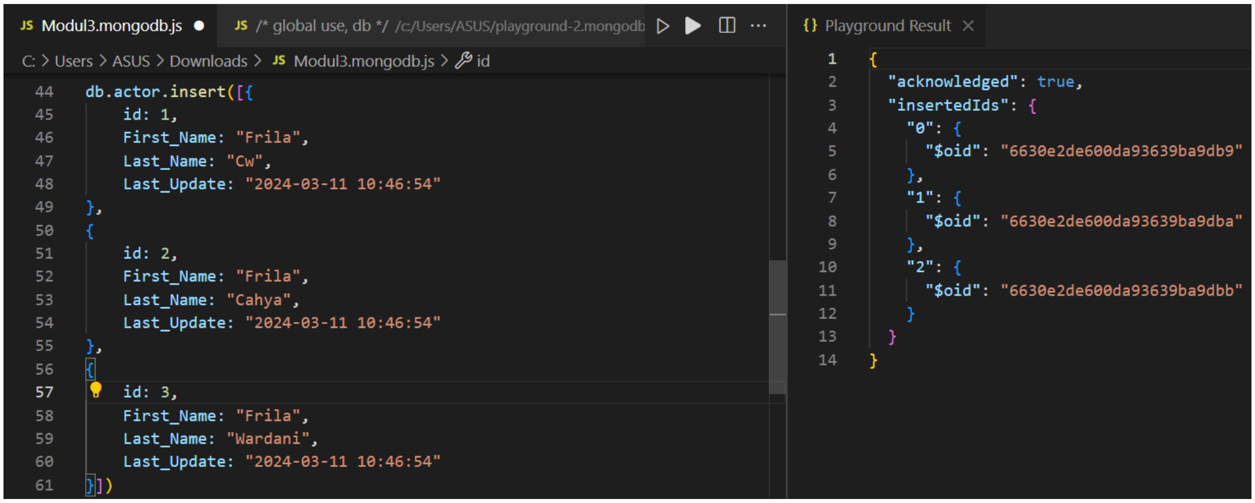

Modul3.mongodb.js
/* global use, db */ /c:/Users/ASUS/playground-2.mongodb
Playground Result
C: > Users > ASUS > Downloads > Modul3.mongodb.js > ...

```
db.customers.insert([{
    id: "Fernanda",
    fullname: "Fernanda Ramos",
    email: "fernadaramos4@uol.com.br",
    age: 24
},
{
    id: "Mark",
    fullname: "Mark Philips",
    email: "mphilips12@shaw.ca",
    city: "San Francisco"
},
{
    id: "Jennifer",
    fullname: "Jennifer Peterson",
    email: "jenniferp@rogers.ca",
    occupation: "teacher"
}])
```

```
{
  "acknowledged": true,
  "insertedIds": {
    "0": {
      "$oid": "6630e17347f715273d220047"
    },
    "1": {
      "$oid": "6630e17347f715273d220048"
    },
    "2": {
      "$oid": "6630e17347f715273d220049"
    }
  }
}
```

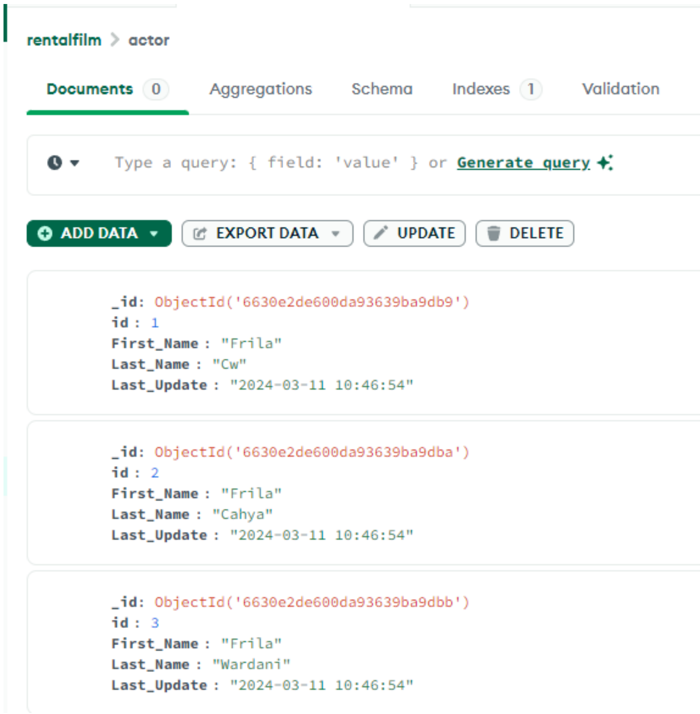


```
_id: ObjectId('663120d3c6b740f95d7523d0')
id : "Fernanda"
fullname : "Fernanda Ramos"
email : "fernadaramos4@uol.com.br"
age : 24

_id: ObjectId('663120d3c6b740f95d7523d1')
id : "Mark"
fullname : "Mark Philips"
email : "mphilips12@shaw.ca"
city : "San Francisco"

_id: ObjectId('663120d3c6b740f95d7523d2')
id : "Jennifer"
fullname : "Jennifer Peterson"
email : "jenniferp@rogers.ca"
occupation : "teacher"
```

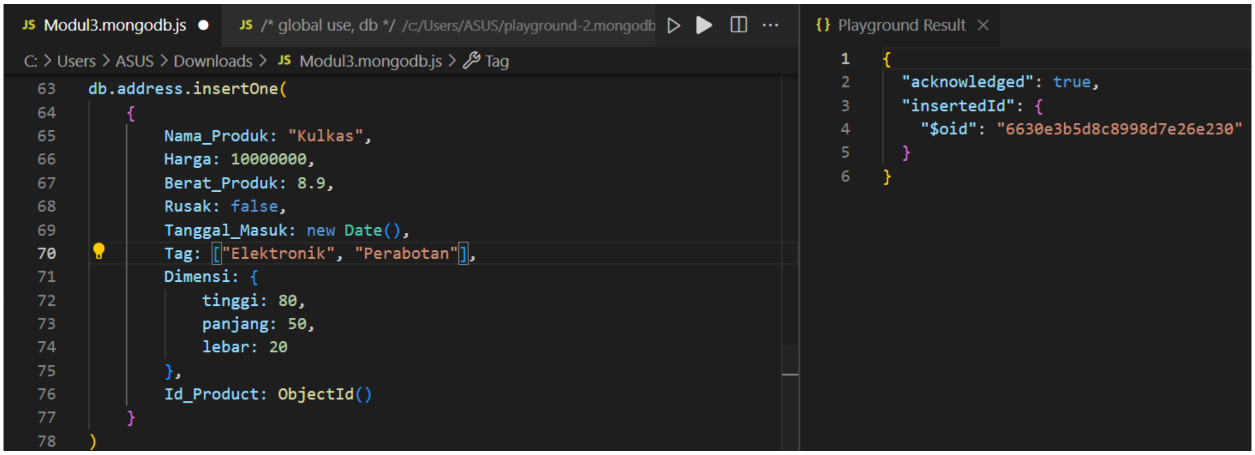

Modul3.mongodb.js
/* global use, db */ /c:/Users/ASUS/playground-2.mongodb
Playground Result
C: > Users > ASUS > Downloads > Modul3.mongodb.js > id

```
db.actor.insert([{
    id: 1,
    First_Name: "Frila",
    Last_Name: "Cw",
    Last_Update: "2024-03-11 10:46:54"
},
{
    id: 2,
    First_Name: "Frila",
    Last_Name: "Cahya",
    Last_Update: "2024-03-11 10:46:54"
},
{
    id: 3,
    First_Name: "Frila",
    Last_Name: "Wardani",
    Last_Update: "2024-03-11 10:46:54"
}])
```

```
{
  "acknowledged": true,
  "insertedIds": {
    "0": {
      "$oid": "6630e2de600da93639ba9db9"
    },
    "1": {
      "$oid": "6630e2de600da93639ba9dba"
    },
    "2": {
      "$oid": "6630e2de600da93639ba9dbb"
    }
  }
}
```

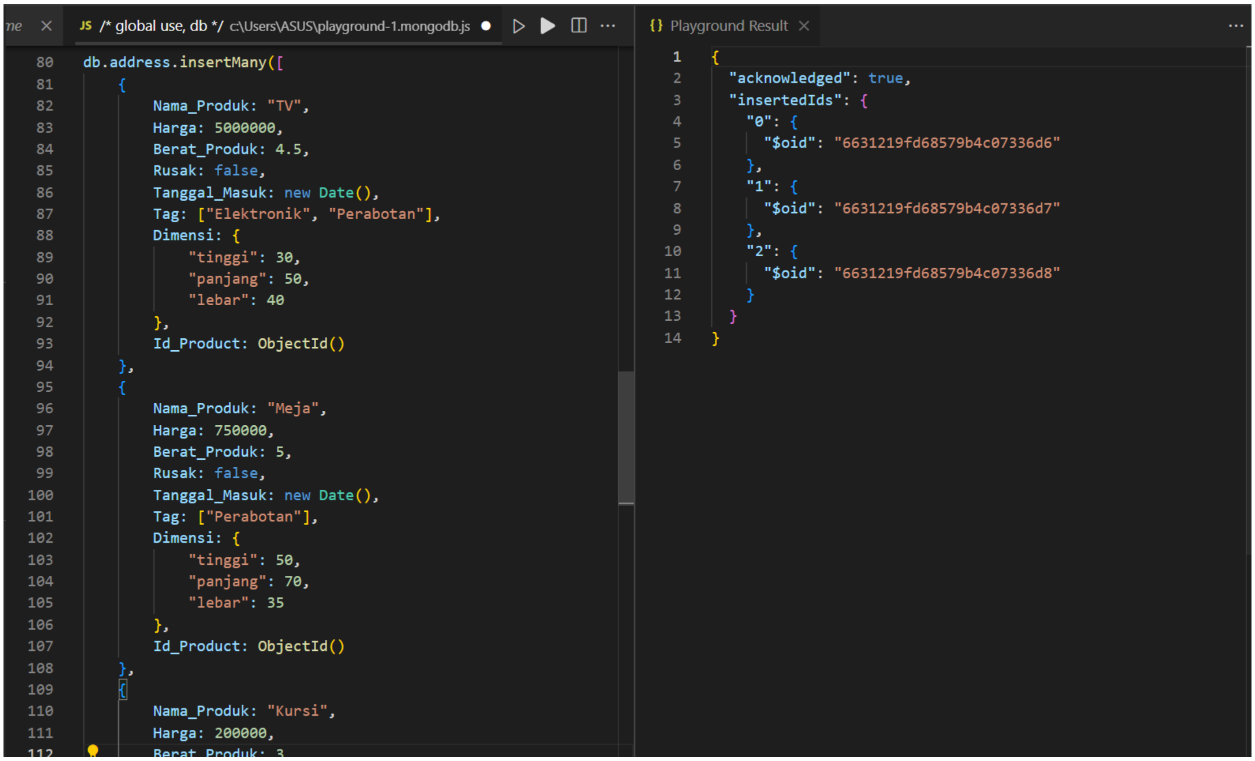


```
_id: ObjectId('6630e2de600da93639ba9db9')
id : 1
First_Name : "Frila"
Last_Name : "Cw"
Last_Update : "2024-03-11 10:46:54"

_id: ObjectId('6630e2de600da93639ba9dba')
id : 2
First_Name : "Frila"
Last_Name : "Cahya"
Last_Update : "2024-03-11 10:46:54"

_id: ObjectId('6630e2de600da93639ba9dbb')
id : 3
First_Name : "Frila"
Last_Name : "Wardani"
Last_Update : "2024-03-11 10:46:54"
```


Modul3.mongodb.js
/* global use, db */ /c:/Users/ASUS/playground-2.mongodb
Playground Result
C: > Users > ASUS > Downloads > Modul3.mongodb.js > Tag

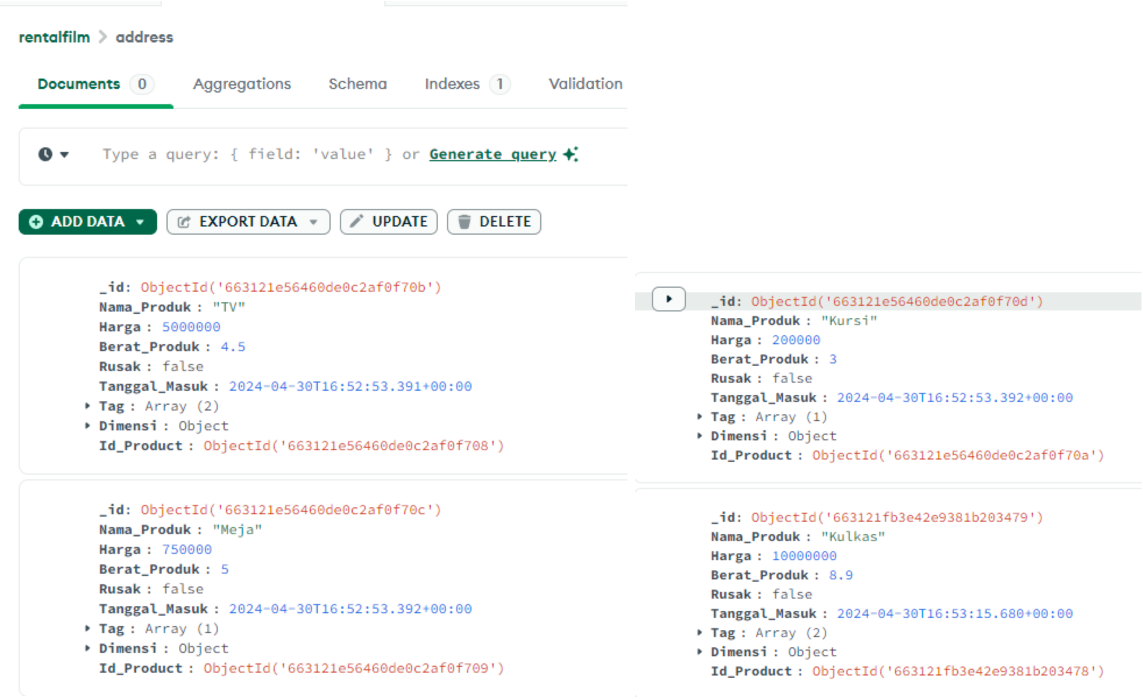
```
db.address.insertOne(
    {
        Nama_Produk: "Kulkas",
        Harga: 10000000,
        Berat_Produk: 8.9,
        Rusak: false,
        Tanggal_Masuk: new Date(),
        Tag: ["Elektronik", "Perabotan"],
        Dimensi: {
            tinggi: 80,
            panjang: 50,
            lebar: 20
        },
        Id_Product: ObjectId()
    }
)
```

```
{
  "acknowledged": true,
  "insertedId": {
    "$oid": "6630e3b5d8c8998d7e26e230"
  }
}
```



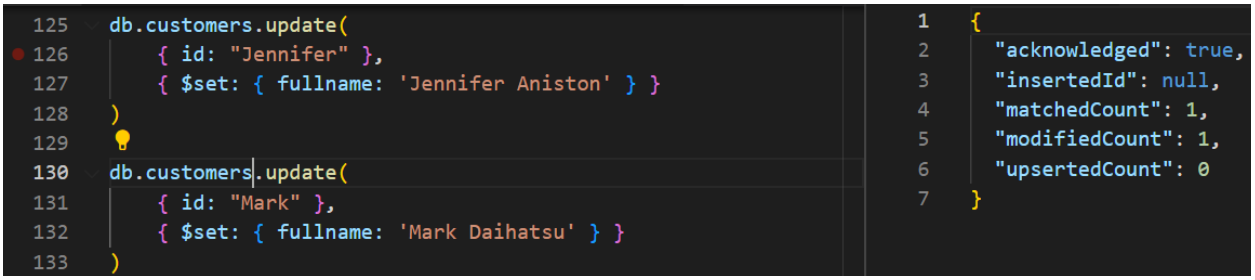
```javascript
db.address.insertMany([
    {
        Nama_Produk: "TV",
        Harga: 5000000,
        Berat_Produk: 4.5,
        Rusak: false,
        Tanggal_Masuk: new Date(),
        Tag: ["Elektronik", "Perabotan"],
        Dimensi: {
            "tinggi": 30,
            "panjang": 50,
            "lebar": 40
        },
        Id_Product: ObjectId()
    },
    {
        Nama_Produk: "Meja",
        Harga: 750000,
        Berat_Produk: 5,
        Rusak: false,
        Tanggal_Masuk: new Date(),
        Tag: ["Perabotan"],
        Dimensi: {
            "tinggi": 50,
            "panjang": 70,
            "lebar": 35
        },
        Id_Product: ObjectId()
    },
    {
        Nama_Produk: "Kursi",
        Harga: 200000,
        Berat_Produk: 3
```

```json
{
  "acknowledged": true,
  "insertedIds": {
    "0": {
      "$oid": "6631219fd68579b4c07336d6"
    },
    "1": {
      "$oid": "6631219fd68579b4c07336d7"
    },
    "2": {
      "$oid": "6631219fd68579b4c07336d8"
    }
  }
}
```



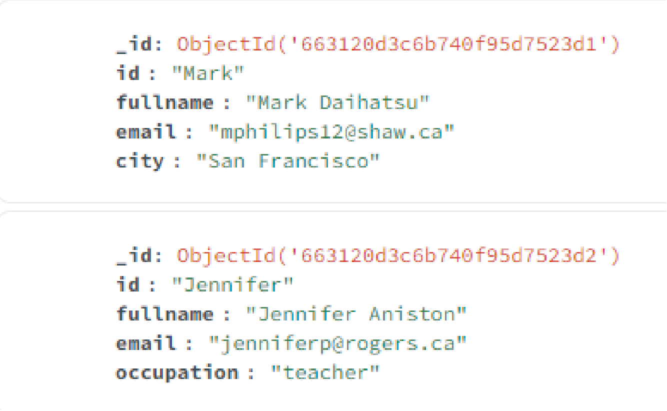
```
_id: ObjectId('663121e56460de0c2af0f70b')
Nama_Produk : "TV"
Harga : 5000000
Berat_Produk : 4.5
Rusak : false
Tanggal_Masuk : 2024-04-30T16:52:53.391+00:00
Tag : Array (2)
Dimensi : Object
Id_Product : ObjectId('663121e56460de0c2af0f708')

_id: ObjectId('663121e56460de0c2af0f70c')
Nama_Produk : "Meja"
Harga : 750000
Berat_Produk : 5
Rusak : false
Tanggal_Masuk : 2024-04-30T16:52:53.392+00:00
Tag : Array (1)
Dimensi : Object
Id_Product : ObjectId('663121e56460de0c2af0f709')

_id: ObjectId('663121e56460de0c2af0f70d')
Nama_Produk : "Kursi"
Harga : 200000
Berat_Produk : 3
Rusak : false
Tanggal_Masuk : 2024-04-30T16:52:53.392+00:00
Tag : Array (1)
Dimensi : Object
Id_Product : ObjectId('663121e56460de0c2af0f70a')

_id: ObjectId('663121fb3e42e9381b203479')
Nama_Produk : "Kulkas"
Harga : 10000000
Berat_Produk : 8.9
Rusak : false
Tanggal_Masuk : 2024-04-30T16:53:15.680+00:00
Tag : Array (2)
Dimensi : Object
Id_Product : ObjectId('663121fb3e42e9381b203478')
```

3. Lakukan minimal dua buah query update data dan delete data.



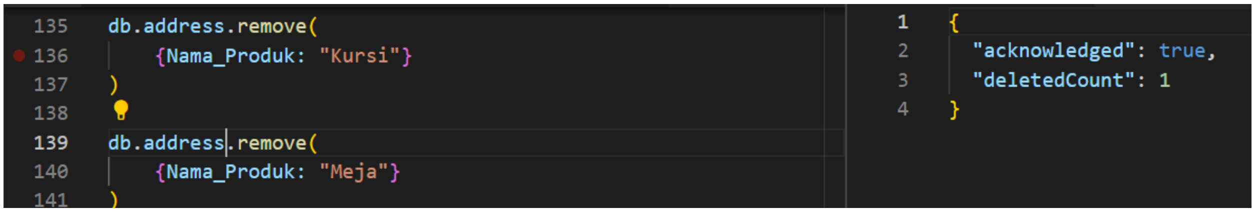
```
db.customers.update(
    { id: "Jennifer" },
    { $set: { fullname: 'Jennifer Aniston' } }
)

db.customers.update(
    { id: "Mark" },
    { $set: { fullname: 'Mark Daihatsu' } }
)
```

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



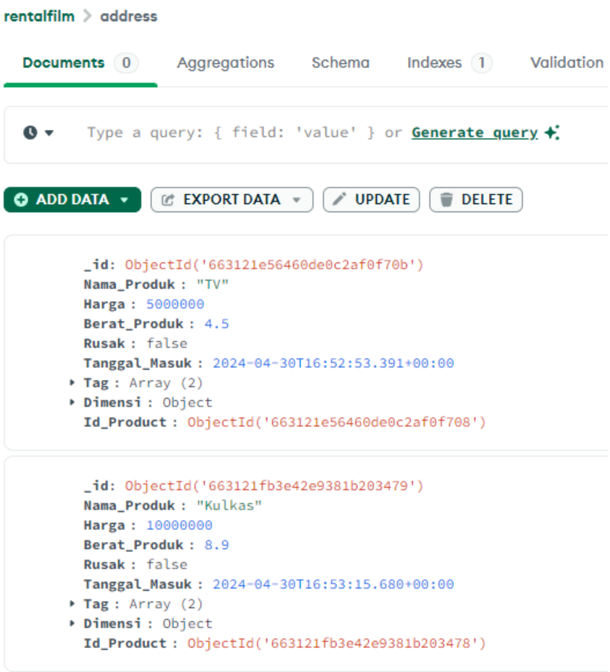
```
_id: ObjectId('663120d3c6b740f95d7523d1')
id : "Mark"
fullname : "Mark Daihatsu"
email : "mphilips12@shaw.ca"
city : "San Francisco"
```

```
_id: ObjectId('663120d3c6b740f95d7523d2')
id : "Jennifer"
fullname : "Jennifer Aniston"
email : "jenniferp@rogers.ca"
occupation : "teacher"
```



```
db.address.remove(
    {Nama_Produk: "Kursi"}
)

db.address.remove(
    {Nama_Produk: "Meja"}
)
```

```
{
  "acknowledged": true,
  "deletedCount": 1
}
```



```
_id: ObjectId('663121e56460de0c2af0f70b')
Nama_Produk : "TV"
Harga : 5000000
Berat_Produk : 4.5
Rusak : false
Tanggal_Masuk : 2024-04-30T16:52:53.391+00:00
▸ Tag : Array (2)
▸ Dimensi : Object
Id_Product : ObjectId('663121e56460de0c2af0f708')
```

```
_id: ObjectId('663121fb3e42e9381b203479')
Nama_Produk : "Kulkas"
Harga : 10000000
Berat_Produk : 8.9
Rusak : false
Tanggal_Masuk : 2024-04-30T16:53:15.680+00:00
▸ Tag : Array (2)
▸ Dimensi : Object
Id_Product : ObjectId('663121fb3e42e9381b203478')
```