

Praktikum Basis Data Lanjut

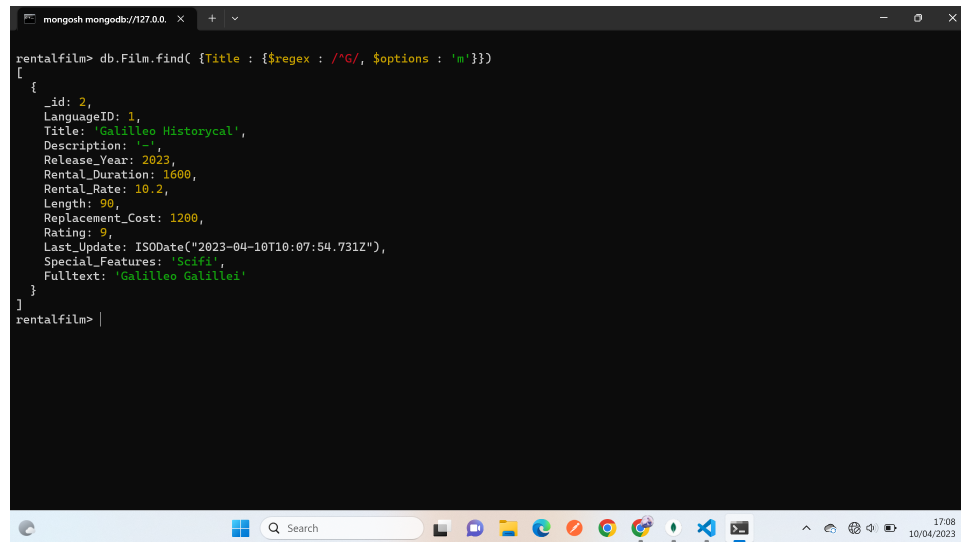
Tugas - 5

1. Buat dan jalankan perintah untuk mencari data dari collection Customer menggunakan minimal 2 buah variasi dari perintah \$in dan \$nin

```
mongosh mongodb://127.0.0.1:27027
rentalfilm> db.Customer.find({Active : {$in : ["Y", "N"]}})
[
  {
    _id: ObjectId("6421be57492aa3bf57826f2c"),
    ID: 2928445332,
    AddressID: 2323223,
    AddressColumn: 28733328,
    First_Name: 'jatniko',
    Last_Name: 'unarko',
    Email: 'unarkow@gmail.com',
    Active: 'Y',
    Create_Date: ISODate("2023-03-27T16:03:35.547Z"),
    Last_Update: ISODate("2023-03-27T16:03:35.547Z")
  },
  {
    _id: ObjectId("6421be57492aa3bf57826f2d"),
    ID: 255866222,
    AddressID: 23228223,
    AddressColumn: 28722228,
    First_Name: 'elsa',
    Last_Name: 'rhina',
    Email: 'elsa@gmail.com',
    Active: 'Y',
    Create_Date: ISODate("2023-03-27T16:03:35.548Z"),
    Last_Update: ISODate("2023-03-27T16:03:35.548Z")
  },
  {
    _id: ObjectId("6421c0b6492aa3bf57826f2f"),
    ID: 2928445332,
    AddressID: 2323223,
    AddressColumn: 28733328,
    First_Name: 'jatniko',
    Last_Name: 'unarko',
    Email: 'unarkow@gmail.com',
    Active: 'N',
    Create_Date: ISODate("2023-03-27T16:03:35.547Z"),
    Last_Update: ISODate("2023-03-27T16:03:35.547Z")
  }
]
```

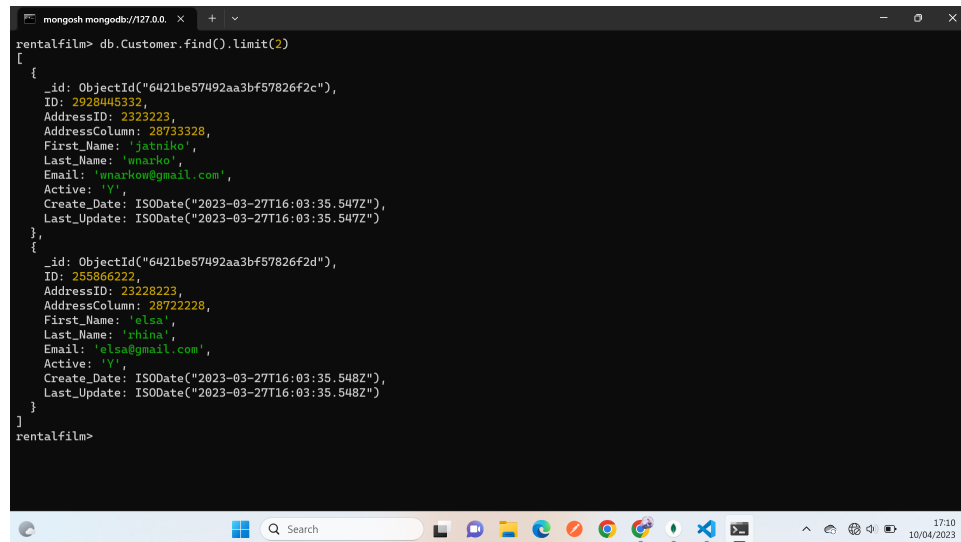
```
mongosh mongodb://127.0.0.1:27027
rentalfilm> db.Customer.find({Active : {$nin : ["Y", "N"]}})
[
  {
    _id: 5,
    customerName: 'Georg Carmine',
    address: { street: 'Last Road', city: 'Britania', country: 'Narnia' }
  },
  {
    _id: 6,
    customerName: 'Axcell Walter',
    city: 'Unknownn Dam',
    country: 'Atlantis'
  },
  {
    _id: 7,
    customerName: 'Andrea Lawson',
    address: { street: 'Last Road', city: 'Britania', country: 'Narnia' }
  },
  {
    _id: 8,
    customerName: 'Axcell Misk',
    city: 'Unknownn Dam',
    country: 'Atlantis'
  },
  {
    _id: 9,
    customerName: 'Andrea Lawson',
    address: { street: 'Last Road', city: 'Britania', country: 'Narnia' }
  },
  {
    _id: 10,
    customerName: 'Axcell Misk',
    city: 'Unknownn Dam',
    country: 'Atlantis'
  }
]
```

2. Buatlah dan Jalankan perintah untuk mencari data dari collection Film untuk menampilkan data Title yang diakhiri dengan huruf G.



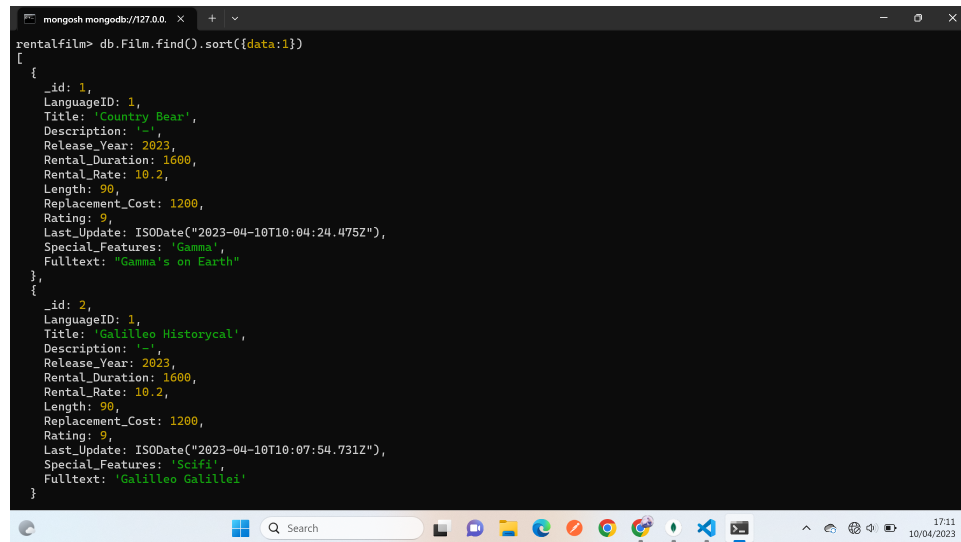
```
mongosh mongodb://127.0.0.1:27027/rentalfilm> db.Film.find({Title: {$regex: /^G/, $options: 'm'}})
[
  {
    _id: 2,
    LanguageID: 1,
    Title: 'Galileo Historical',
    Description: '-',
    Release_Year: 2023,
    Rental_Duration: 1600,
    Rental_Rate: 10.2,
    Length: 90,
    Replacement_Cost: 1200,
    Rating: 9,
    Last_Update: ISODate("2023-04-10T10:07:54.731Z"),
    Special_Features: 'SciFi',
    Fulltext: 'Galileo Galilei'
  }
]
rentalfilm>
```

3. Buatlah dan jalankan perintah untuk menampilkan 2 buah data dari collection Customer.



```
mongosh mongodb://127.0.0.1:27027/rentalfilm> db.Customer.find().limit(2)
[
  {
    _id: ObjectId("6421be57492aa3bf57826f2c"),
    ID: 2928445332,
    AddressID: 2323223,
    AddressColumn: 28733328,
    First_Name: 'jatniko',
    Last_Name: 'unarko',
    Email: 'unarkow@gmail.com',
    Actives: 'Y',
    Create_Date: ISODate("2023-03-27T16:03:35.547Z"),
    Last_Update: ISODate("2023-03-27T16:03:35.547Z")
  },
  {
    _id: ObjectId("6421be57492aa3bf57826f2d"),
    ID: 255866222,
    AddressID: 23228223,
    AddressColumn: 28722228,
    First_Name: 'elsa',
    Last_Name: 'rhina',
    Email: 'elsa@gmail.com',
    Active: 'Y',
    Create_Date: ISODate("2023-03-27T16:03:35.548Z"),
    Last_Update: ISODate("2023-03-27T16:03:35.548Z")
  }
]
rentalfilm>
```

4. Buatlah dan jalankan perintah untuk menampilkan semua data di film berdasarkan urutan alfabet.

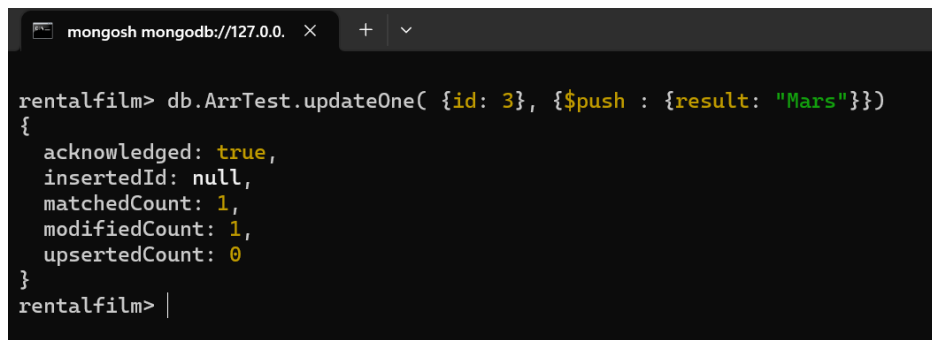


```

mongosh mongodb://127.0.0.1
rentalfilm> db.Film.find().sort({data:1})
[
  {
    _id: 1,
    LanguageID: 1,
    Title: 'Country Bear',
    Description: '-',
    Release_Year: 2023,
    Rental_Duration: 1600,
    Rental_Rate: 10.2,
    Length: 90,
    Replacement_Cost: 1200,
    Rating: 9,
    Last_Update: ISODate("2023-04-10T10:04:24.475Z"),
    Special_Features: 'Gamma',
    Fulltext: "Gamma's on Earth"
  },
  {
    _id: 2,
    LanguageID: 1,
    Title: 'Galileo Historical',
    Description: '-',
    Release_Year: 2023,
    Rental_Duration: 1600,
    Rental_Rate: 10.2,
    Length: 90,
    Replacement_Cost: 1200,
    Rating: 9,
    Last_Update: ISODate("2023-04-10T10:07:54.731Z"),
    Special_Features: 'Scifi',
    Fulltext: 'Galileo Galilei'
  }
]

```

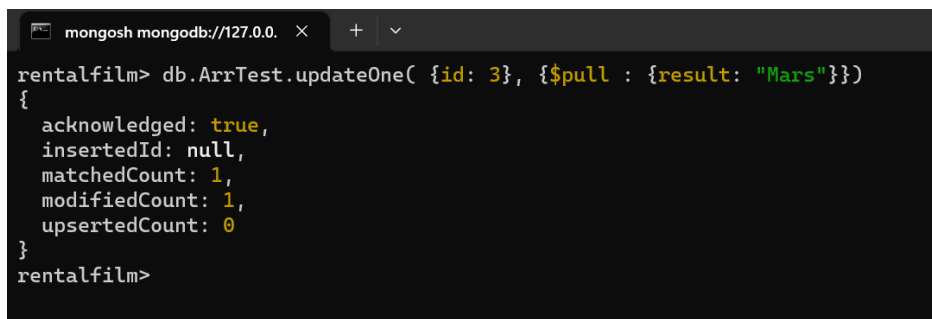
5. Buatlah collection baru dengan nama Arrest, masukan beberapa data yang memiliki setidaknya 1 array kemudian buat dan jalankan perintah Push, Pull dan addToSet secara bergiliran.



```

mongosh mongodb://127.0.0.1
rentalfilm> db.ArrTest.updateOne( {id: 3}, { $push : {result: "Mars"}} )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
rentalfilm>

```



```

mongosh mongodb://127.0.0.1
rentalfilm> db.ArrTest.updateOne( {id: 3}, { $pull : {result: "Mars"}} )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
rentalfilm>

```

```
mongosh mongodb://127.0.0.1:27027/rentalfilm
rentalfilm> db.ArrTest.updateOne( {id: 3}, {$addToSet : {result: "Mars"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
rentalfilm> |
```