

TUGAS BASIS DATA LANJUT

MEMBUAT DATABASE ONE TO MANY DAN MANY TO MANY

DENGAN MONGODB

Ahmad Miftahul Khoiri (17050623023)

Melakukan koneksi ke server dengan perintah “mongodb”

```
Command Prompt - mongod
C:\> cd program files /mongodb /server /3.2

C:\Program Files\MongoDB\Server\3.2>cd bin

C:\Program Files\MongoDB\Server\3.2\bin>mongod
2019-02-27T18:38:24.993+0700 I CONTROL [main]
2019-02-27T18:38:24.993+0700 W CONTROL [main] 32-bit servers don't have journaling enabled by default. Please use --journal if you want durability.
2019-02-27T18:38:25.022+0700 I CONTROL [initandlisten] MongoDB starting : pid=6988 port=27017 dbpath=C:\data\db\ 32-bit host=DESKTOP-E4966LT
2019-02-27T18:38:25.022+0700 I CONTROL [initandlisten] targetMinOS: Windows Vista/Windows Server 2008
2019-02-27T18:38:25.022+0700 I CONTROL [initandlisten] db version v3.2.14
2019-02-27T18:38:25.022+0700 I CONTROL [initandlisten] git version: 92f6668a768ebf294bd4f494c50f48459198e6a3
2019-02-27T18:38:25.023+0700 I CONTROL [initandlisten] allocator: tcmalloc
2019-02-27T18:38:25.023+0700 I CONTROL [initandlisten] modules: none
2019-02-27T18:38:25.025+0700 I CONTROL [initandlisten] build environment:
2019-02-27T18:38:25.028+0700 I CONTROL [initandlisten] distarch: i386
2019-02-27T18:38:25.029+0700 I CONTROL [initandlisten] target_arch: i386
2019-02-27T18:38:25.031+0700 I CONTROL [initandlisten] options: {}
2019-02-27T18:38:25.037+0700 I - [initandlisten] Detected data files in C:\data\db\ created by the 'mmapv1' storage engine, so setting the active storage engine to 'mmapv1'.
2019-02-27T18:38:25.089+0700 I CONTROL [initandlisten]
2019-02-27T18:38:25.089+0700 I CONTROL [initandlisten] ** WARNING: This 32-bit MongoDB binary is deprecated
2019-02-27T18:38:25.090+0700 I CONTROL [initandlisten]
2019-02-27T18:38:25.092+0700 I CONTROL [initandlisten]
2019-02-27T18:38:25.094+0700 I CONTROL [initandlisten] ** NOTE: This is a 32 bit MongoDB binary.
2019-02-27T18:38:25.096+0700 I CONTROL [initandlisten] ** 32 bit builds are limited to less than 2GB of data (or less with --journal).
2019-02-27T18:38:25.098+0700 I CONTROL [initandlisten] ** Note that journaling defaults to off for 32 bit and is currently off.
2019-02-27T18:38:25.101+0700 I CONTROL [initandlisten] ** See http://dochub.mongodb.org/core/32bit
2019-02-27T18:38:25.102+0700 I CONTROL [initandlisten]
2019-02-27T18:38:25.154+0700 I NETWORK [HostnameCanonicalizationWorker] Starting hostname canonicalization worker
2019-02-27T18:38:25.538+0700 I FTDC [initandlisten] Initializing full-time diagnostic data capture with directory 'C:\data\db\diagnostic.data'
2019-02-27T18:38:25.539+0700 I NETWORK [initandlisten] waiting for connections on port 27017
2019-02-27T18:40:22.768+0700 I NETWORK [initandlisten] connection accepted from 127.0.0.1:59664 #1 (1 connection now open)
2019-02-27T19:31:19.616+0700 I NETWORK [initandlisten] connection accepted from 127.0.0.1:60587 #2 (2 connections now open)
```

Membuka jendela baru dan mengetik perintah “mongo” untuk mulai membuat database

```
mongo
C:\Program Files\MongoDB\Server\3.2\bin>mongo
MongoDB shell version: 3.2.14
connecting to: test
Server has startup warnings:
2019-02-27T18:38:25.089+0700 I CONTROL [initandlisten]
2019-02-27T18:38:25.089+0700 I CONTROL [initandlisten] ** WARNING: This 32-bit MongoDB binary is deprecated
2019-02-27T18:38:25.090+0700 I CONTROL [initandlisten]
2019-02-27T18:38:25.092+0700 I CONTROL [initandlisten]
2019-02-27T18:38:25.094+0700 I CONTROL [initandlisten] ** NOTE: This is a 32 bit MongoDB binary.
2019-02-27T18:38:25.096+0700 I CONTROL [initandlisten] ** 32 bit builds are limited to less than 2GB
2019-02-27T18:38:25.098+0700 I CONTROL [initandlisten] ** Note that journaling defaults to off for 32
2019-02-27T18:38:25.101+0700 I CONTROL [initandlisten] ** See http://dochub.mongodb.org/core/32bit
2019-02-27T18:38:25.102+0700 I CONTROL [initandlisten]
> show dbs
local 0.078GB
```

Melihat database awal

```
2019-02-27T18:38:25
> show dbs
local 0.078GB
```

ONE TO MANY

Membuat database baru dengan nama **dataPenduduk**

```
> use dataPenduduk
switched to db dataPenduduk
> db.penduduk.insert({nama:""
```

Membuat collection **penduduk** yang didalamnya ada collection yang bernama **alamat**
(dengan menggunakan embeded document)

```
> db.penduduk.insert({nama:'', jenisKelamin:'', umur:'', NIK:'', status:'', alamat:[{kabupapaten:'', kecamatan:'',
desa:'', rtrw:''}]})
WriteResult({ "nInserted" : 1 })
>
>
```

Hasil dari collection yang kita buat tadi

```
> db.penduduk.find().pretty()
{
  "_id" : ObjectId("5c77e571b0a7900c1aaf8569"),
  "nama" : "",
  "jenisKelamin" : "",
  "umur" : "",
  "NIK" : "",
  "status" : "",
  "alamat" : [
    {
      "kabupapaten" : "",
      "kecamatan" : "",
      "desa" : "",
      "rtrw" : ""
    }
  ]
}
```

MANY TO MANY

membuat database bernama **sewaKamera**.

```
}  
> use sewaKamera  
switched to db sewaKamera  
> db.penduduk.insert({status
```

membuat collection dengan nama **detailSewa** yang di dalamnya ada dua collection, yaitu **kamera** dan **sewa** (dengan menggunakan embedded document)

```
>  
> db.detailSewa.insert({status:'', kamera:[{jenisKamera:'',merk:'',type:'',hargaSewa:''}],sewa:[{tanggalSewa:  
'',tanggalKembali:'',tanggalHarusKembali:'',totalBayar:''}]})  
WriteResult({ "nInserted" : 1 })  
>  
>
```

Melihat skema collection yang telah kita buat

```
>  
>  
> db.detailSewa.find().pretty()  
{  
  "_id" : ObjectId("5c77e8c8b0a7900c1aaf856b"),  
  "status" : "",  
  "kamera" : [  
    {  
      "jenisKamera" : "",  
      "merk" : "",  
      "type" : "",  
      "hargaSewa" : ""  
    }  
  ],  
  "sewa" : [  
    {  
      "tanggalSewa" : "",  
      "tanggalKembali" : "",  
      "tanggalHarusKembali" : "",  
      "totalBayar" : ""  
    }  
  ]  
}
```