

TUGAS BASIS DATA LANJUT

MEMBUAT DATA BASE ONE TO MANY DAN MANY TO MANY DI MONGODB

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ONE TO MANY

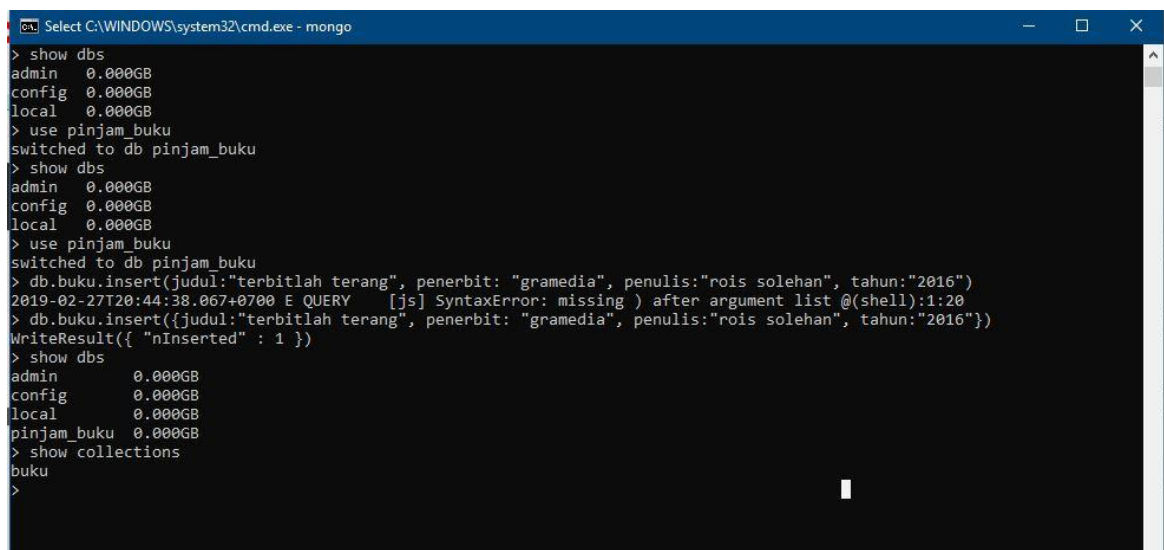
1. Membuat database



```
C:\WINDOWS\system32\cmd.exe - mongo
> show dbs
admin    0.000GB
config  0.000GB
local    0.000GB
> use pinjam_buku
switched to db pinjam_buku
> show dbs
admin    0.000GB
config  0.000GB
local    0.000GB
>
```

Keterangan : dari screenshoot di atas database “PINJAM_BUKU” tidak ada karena belum ada collections di dalamnya

2. Membuat Collections di dalam database “PINJAM_BUKU”



```
Select C:\WINDOWS\system32\cmd.exe - mongo
> show dbs
admin    0.000GB
config  0.000GB
local    0.000GB
> use pinjam_buku
switched to db pinjam_buku
> show dbs
admin    0.000GB
config  0.000GB
local    0.000GB
> use pinjam_buku
switched to db pinjam_buku
> db.buku.insert(judul:"terbitlah terang", penerbit: "gramedia", penulis:"rois solehan", tahun:"2016")
2019-02-27T20:44:38.067+0700 E QUERY    [js] SyntaxError: missing ) after argument list @(shell):1:20
> db.buku.insert({judul:"terbitlah terang", penerbit: "gramedia", penulis:"rois solehan", tahun:"2016"})
WriteResult({ "nInserted" : 1 })
> show dbs
admin    0.000GB
config  0.000GB
local    0.000GB
pinjam_buku 0.000GB
> show collections
buku
>
```

Database “PINJAM_BUKU” sudah muncul.

3. Membuat collections "PEMINJAM" dan merelasikan dengan collections "BUKU"

```
> show collections
buku
> db.peminjam.insert({nama:"gigih", buku_id: db.buku.find()[0]._id, alamat:"sukolilo", no_telp:"089876543921"})
```

4. Hasil Relasi "BUKU" dan "PEMINJAM"

```
> db.buku.find().pretty()
{
  "_id" : ObjectId("5c7694af35a93b57839bab36"),
  "judul" : "terbitlah terang",
  "penerbit" : "gramedia",
  "penulis" : "rois solehan",
  "tahun" : "2016"
}
> db.peminjam.find().pretty()
{
  "_id" : ObjectId("5c76959235a93b57839bab37"),
  "nama" : "gigih",
  "buku_id" : ObjectId("5c7694af35a93b57839bab36"),
  "alamat" : "sukolilo",
  "no_telp" : "089876543921"
}
>
```

MANY TO MANY

1. Membuat Database dan Membuat Collections "TENTOR"

```
C:\WINDOWS\system32\cmd.exe - mongo
admin      0.000GB
config     0.000GB
local      0.000GB
pinjam_buku 0.000GB
> use bimbel
switched to db bimbel
> db.tentor.insert({nama:'prabowo',alamat:'ngembes',no_telp:'0898765433456',email:'prabowonomor2@gmail.com'})
WriteResult({ "nInserted" : 1 })
> db.tentor.find().pretty()
{
  "_id" : ObjectId("5c7699dd35a93b57839bab38"),
  "nama" : "prabowo",
  "alamat" : "ngembes",
  "no_telp" : "0898765433456",
  "email" : "prabowonomor2@gmail.com"
}
>
```

2. Membuat Collections Murid

```
C:\WINDOWS\system32\cmd.exe - mongo
> db.murid.insert({nama:'jokowi',alamat:'ngguwo',no_telp:'08934565433456',email:'jokowinomor1@gmail.com'})
WriteResult({ "nInserted" : 1 })
> db.murid.find().pretty()
{
  "_id" : ObjectId("5c769a8135a93b57839bab39"),
  "nama" : "jokowi",
  "alamat" : "ngguwo",
  "no_telp" : "08934565433456",
  "email" : "jokowinomor1@gmail.com"
}
```

3. Membuat Collections Kelas

```
> db.kelas.insert({nama_kelas:'tadika mesra',tentor_id: db.tentor.find()[0]._id, murid_id: db.murid.find()[0]._id})
WriteResult({ "nInserted" : 1 })
>
```

4. Hasil

```
> db.tentor.find().pretty()
{
  "_id" : ObjectId("5c7699dd35a93b57839bab38"),
  "nama" : "prabowo",
  "alamat" : "ngembes",
  "no_telp" : "0898765433456",
  "email" : "prabowonomor2@gmail.com"
}
> db.murid.find().pretty()
{
  "_id" : ObjectId("5c769a8135a93b57839bab39"),
  "nama" : "jokowi",
  "alamat" : "ngguwo",
  "no_telp" : "08934565433456",
  "email" : "jokowinomor1@gmail.com"
}
> db.kelas.find().pretty()
{
  "_id" : ObjectId("5c769b8a35a93b57839bab3a"),
  "nama_kelas" : "tadika mesra",
  "tentor_id" : ObjectId("5c7699dd35a93b57839bab38"),
  "murid_id" : ObjectId("5c769a8135a93b57839bab39")
}
```