

TUGAS BASIS DATA LANJUT

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

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- **One To Many**

Membuat Database Bernama “buku”

```
C:\Windows\system32\cmd.exe - mongo
> use buku
switched to db buku
```

Membuat Collection Bernama “penerbit”

```
> db.penerbit.insert([
... {nama:'abdu',alamat:'nganjuk',umur:'21',asal:'nganjuk'}
... ])
```

Menampilkan Hasil Pembuatan Collection

```
> db.penerbit.find().pretty()
{
  "_id" : ObjectId("5c76a46b6e87a3665536df57"),
  "nama" : "abdu",
  "alamat" : "nganjuk",
  "umur" : "21",
  "asal" : "nganjuk"
}
```

Membuat Collection Bernama “bukuku” dan Merelasikannya dengan Collection “penerbit”

```
> db.bukuku.insert([
... {penerbit_id: db.penerbit.find()[0]._id,judul:'tayamum',penulis:'satriyo'}
... ])
```

Hasil dari Relasi One To Many

```
> db.penerbit.find().pretty()
{
  "_id" : ObjectId("5c76a46b6e87a3665536df57"),
  "nama" : "abdu1",
  "alamat" : "nganjuk",
  "umur" : "21",
  "asal" : "nganjuk"
}
> db.bukuku.find().pretty()
{
  "_id" : ObjectId("5c76a9f06e87a3665536df5a"),
  "penerbit_id" : ObjectId("5c76a46b6e87a3665536df57"),
  "judul" : "tayamum",
  "penulis" : "satriyo"
}
```

- Many To Many

Membuat Database Bernama “hobi”

```
> use hobby
switched to db hobby
```

Membuat Collections bernama “orang”

```
> db.orang.insert([
... {nama:'jontor',username:'jon',password:'1234',email:'jontor@gmail.com'}
... ])
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 1,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})
> db.orang.find().pretty()
{
  "_id" : ObjectId("5c76b37c6e87a3665536df5b"),
  "nama" : "jontor",
  "username" : "jon",
  "password" : "1234",
  "email" : "jontor@gmail.com"
}
```

Membuat Collection “hobi”

```
> db.hobi.insert([
... {hobi:'herex'}
... ])
```

Membuat Collection “hobi_orang”

```
> db.hobi_orang.find().pretty()
{
  "_id" : ObjectId("5c76b5106e87a3665536df5d"),
  "user_id" : ObjectId("5c76b37c6e87a3665536df5b"),
  "hobby_id" : ObjectId("5c76b44a6e87a3665536df5c")
}
```

Relasi

```
> db.hobi_orang.insert([
... {user_id: db.orang.find()[0]._id,hobby_id: db.hobi.find()[0]._id}
... ])
```

Hasil

```
> db.orang.find().pretty()
{
  "_id" : ObjectId("5c76b37c6e87a3665536df5b"),
  "nama" : "jontor",
  "username" : "jon",
  "password" : "1234",
  "email" : "jontor@gmail.com",
  "hobi" : ObjectId("5c76b44a6e87a3665536df5c")
}
> db.hobi.find().pretty()
{ "_id" : ObjectId("5c76b44a6e87a3665536df5c"), "hobi" : "herex" }
```