

TUGAS BASIS DATA LANJUT

MEMBUAT DATABASE ONE TO MANY DAN MANY TO MANY

DI MONGODB

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A. One to Many

1.Membuat Database

```
> use widyatna
switched to db widyatna
```

2.Membuat Collection “Buku”

```
> db.buku.insert({jenis:"jurnal", tentang:"Siklus Hidup", halaman:"500"})
WriteResult({ "nInserted" : 1 })
>
```

3. Membuat Collection “Penyewa” dan merelasikan dengan Collection “Buku”

```
> db.penyewa.insert({ nama:"widyatna", id_buku: db.buku.find()[0]._id , jurusan:"informatika", fakultas:"teknik"})
WriteResult({ "nInserted" : 1 })
>
```

4. Hasil relasi “Penyewa” dan “Buku”

```
> db.buku.find().pretty()
{
  "_id" : ObjectId("5c76be244cce7a194b400dcd"),
  "jenis" : "jurnal",
  "tentang" : "Siklus Hidup",
  "halaman" : "500"
}
> db.penyewa.find().pretty()
{
  "_id" : ObjectId("5c76bed34cce7a194b400dce"),
  "nama" : "widyatna",
  "id_buku" : ObjectId("5c76be244cce7a194b400dcd"),
  "jurusan" : "informatika",
  "fakultas" : "teknik"
}
>
```

B. Many to Many

1. Membuat data base dan membuat Collection “Pelanggan”

```
> use sewatenda
switched to db sewatenda
> db.pelanggan.insert({nama:"sutejo",RT:"05",RW:"06",desa:"sekartaji",kota:"malang",provinsi:"jawa timur"})
WriteResult({ "nInserted" : 1 })
> db.pelanggan.find().pretty()
{
  "_id" : ObjectId("5c76b9504cce7a194b400dc9"),
  "nama" : "sutejo",
  "RT" : "05",
  "RW" : "06",
  "desa" : "sekartaji",
  "kota" : "malang",
  "provinsi" : "jawa timur"
}
>
```

2. Membuat Collection “Tenda”

```
> db.tenda.insert({type:"dome",merk:"consina",kapasitas:"4 orang"})
WriteResult({ "nInserted" : 1 })
> db.tenda.find().pretty()
{
  "_id" : ObjectId("5c76ba2e4cce7a194b400dca"),
  "type" : "dome",
  "merk" : "consina",
  "kapasitas" : "4 orang"
}
>
```

3. Membuat Collection “Transaksi”

```
> db.transaksi.insert({tanggal:"16-01-2019",hari:"Kamis", id_pelanggan : db.pelanggan.find()[0]._id, id_tenda : db.tenda.find()[0]._id})
WriteResult({ "nInserted" : 1 })
>
```

4. Hasil

```
> db.pelanggan.find().pretty()
{
  "_id" : ObjectId("5c76b9504cce7a194b400dc9"),
  "nama" : "sutejo",
  "RT" : "05",
  "RW" : "06",
  "desa" : "sekartaji",
  "kota" : "malang",
  "provinsi" : "jawa timur"
}
> db.tenda.find().pretty()
{
  "_id" : ObjectId("5c76ba2e4cce7a194b400dca"),
  "type" : "dome",
  "merk" : "consina",
  "kapasitas" : "4 orang"
}
> db.transaksi.find().pretty()
{
  "_id" : ObjectId("5c76bb374cce7a194b400dcb"),
  "tanggal" : "16-01-2019",
  "hari" : "Kamis",
  "id_pelanggan" : ObjectId("5c76b9504cce7a194b400dc9"),
  "id_tenda" : ObjectId("5c76ba2e4cce7a194b400dca")
}
>
```