

Nama : Naufal Al-Fikri

NIM : 17050623011

Kelas : D3 MI 2017

## TUGAS BASDAT LANJUT

### ONE to MANY dan MANY to MANY

#### DATABASE 1 (One to Many) :

Database FILM dengan tabel “Fans” dan “Film”

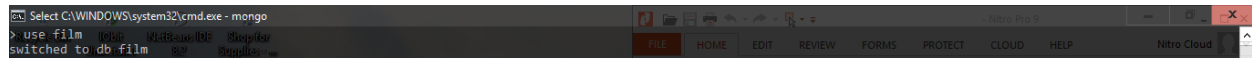
Tabel Fans :

- \_id
- Nama
- Alamat
- Telpon
- Film [id]

Tabel Film :

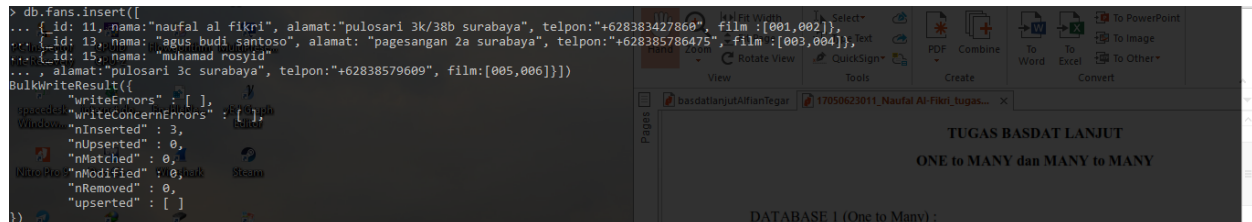
- \_id
- judul
- genre

#### CREATE DATABASE



#### CREATE dan INSERT TABLE

Insert Fans :



Insert Film :



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## READ

Read fans :

```
CA\WINDOWS\system32\cmd.exe - mongo
> db.fans.find().pretty()
{
  "_id" : 11,
  "nama" : "naufal al fikri",
  "alamat" : "pulosari 3k/38b surabaya",
  "telpon" : "+628383427866",
  "film" : [
    1,
    2
  ]
}
{
  "_id" : 13,
  "nama" : "agus budi santoso",
  "alamat" : "pagesangan 2a surabaya",
  "telpon" : "+628385786475",
  "film" : [
    3,
    4
  ]
}
{
  "_id" : 15,
  "nama" : "muhamad rosyid",
  "alamat" : "pulosari 3c surabaya",
  "telpon" : "+62838579609",
  "film" : [
    5,
    6
  ]
}
```

Read film :

```
CA\WINDOWS\system32\cmd.exe - mongo
> db.film.find().pretty()
{ "_id" : 1, "judul" : "5cm", "genre" : "adventure" }
{ "_id" : 2, "judul" : "tenggelam kapal van der wick", "genre" : "romance" }
{ "_id" : 3, "judul" : "dilan1990", "genre" : "romance" }
{ "_id" : 4, "judul" : "ayat ayat cinta", "genre" : "romance" }
{ "_id" : 5, "judul" : "habibi ainun", "genre" : "romance" }
{ "_id" : 6, "judul" : "danun", "genre" : "horor" }
```

## UPDATE

```
CA\WINDOWS\system32\cmd.exe - mongo
switched to db.film
> db.fans.find().pretty()
{
  "_id" : 11,
  "nama" : "naufal al fikri",
  "alamat" : "pulosari 3k/38b surabaya",
  "telpon" : "+628383427866",
  "film" : [
    1,
    2
  ]
}
{
  "_id" : 13,
  "nama" : "agus budi santoso",
  "alamat" : "pagesangan 2a surabaya",
  "telpon" : "+628385786475",
  "film" : [
    3,
    4
  ]
}
}
> db.fans.update({_id:13}, {$set:{nama:"agus budi"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.fans.find().pretty()
{
  "_id" : 11,
  "nama" : "naufal al fikri",
  "alamat" : "pulosari 3k/38b surabaya",
  "telpon" : "+628383427866",
  "film" : [
    1,
    2
  ]
}
{
  "_id" : 13,
  "nama" : "agus budi",
  "alamat" : "pagesangan 2a surabaya",
  "telpon" : "+628385786475",
  "film" : [
    3,
    4
  ]
}
}
```

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## DELETE

```
Ca:\WINDOWS\system32\cmd.exe - mongo
{
  "_id": 13,
  "nama": "agus budi santoso",
  "alamat": "pagesangan 2a surabaya",
  "telpon": "+628385786475",
  "film": [
    3,
    4
  ]
}
{
  "_id": 15,
  "nama": "muhamad rosyid",
  "alamat": "pulosari 3c surabaya",
  "telpon": "+62838579609",
  "film": [
    5,
    6
  ]
}
> db.fans.deleteOne({'_id':15})
{ "acknowledged" : true, "deletedCount" : 1 }
> db.fans.find().pretty()
{
  "_id": 11,
  "nama": "naufal al fikri",
  "alamat": "pulosari 3k/38b surabaya",
  "telpon": "+628383427866",
  "film": [
    1,
    2
  ]
}
{
  "_id": 13,
  "nama": "agus budi santoso",
  "alamat": "pagesangan 2a surabaya",
  "telpon": "+628385786475",
  "film": [
    3,
    4
  ]
}
```

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## DATABASE 2 (Many to Many) :

Database UNESA memiliki 2 tabel yaitu tabel 'mahasiswa' dan tabel 'matkul'.

Tabel mahasiswa :

- \_id
- Nama
- Matkul[id]

Tabel matkul :

- \_id
- nama\_matkul
- sks
- mhs[id]

Tabel Mahasiswa :

```
C:\WINDOWS\system32\cmd.exe - mongo
> use unesa
switched to db unesa
> db.mahasiswa.insert([
... { _id:11, nama:"naufalalfikri", matkul:[1,2]},
... { _id:12, nama:"agusbudisantoso", matkul:[3,4]},
... { _id:13, nama:"muhamadrosyid", matkul:[5,6]}])
BulkWriteResult({
  "writeErrors": [ ],
  "writeConcernErrors": [ ],
  "nInserted": 3,
  "nUpserted": 0,
  "nMatched": 0,
  "nModified": 0,
  "nRemoved": 0,
  "upserted": [ ]
})
> db.mahasiswa.find().pretty()
{ "_id" : 11, "nama" : "naufalalfikri", "matkul" : [ 1, 2 ] }
{ "_id" : 12, "nama" : "agusbudisantoso", "matkul" : [ 3, 4 ] }
{ "_id" : 13, "nama" : "muhamadrosyid", "matkul" : [ 5, 6 ] }
```

Tabel Matkul :

```
C:\WINDOWS\system32\cmd.exe - mongo
> db.matkul.insertMany([ { _id:1, nama_matkul:"jarkom lanjut", sks:"3", mhs:[11,12]}, { _id:2, nama_matkul:"web lanjut", sks:"4", mhs:[11,13]}, { _id:3, nama_matkul:"kecerdasan buatan", sks:"3", mhs:[12,13]}, { _id:4, nama_matkul:"pemrograman mobile", sks:"4", mhs:[11,12]}, { _id:5, nama_matkul:"etika profesi", sks:"2", mhs:[11,13]}, { _id:6, nama_matkul:"sistem informasi manajemen", sks:"2", mhs:[12,13]}])
{ "acknowledged" : true, "insertedIds" : [ 1, 2, 3, 4, 5, 6 ] }
> db.matkul.find().pretty()
{ "_id" : 1,
  "nama_matkul" : "jarkom lanjut",
  "sks" : "3",
  "mhs" : [ 11, 12 ] }
{ "_id" : 2,
  "nama_matkul" : "web lanjut",
  "sks" : "4",
  "mhs" : [ 11, 13 ] }
{ "_id" : 3,
  "nama_matkul" : "kecerdasan buatan",
  "sks" : "3",
  "mhs" : [ 12, 13 ] }
{ "_id" : 4,
  "nama_matkul" : "pemrograman mobile",
  "sks" : "4",
  "mhs" : [ 11, 12 ] }
{ "_id" : 5,
  "nama_matkul" : "etika profesi",
  "sks" : "2",
  "mhs" : [ 11, 13 ] }
```