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Prodi : D3 Manajemen Informatika

A. ONE TO MANY

1. Masukkan syntax “use onetomany” untuk membuat database one to many.

```
> use onetomany
switched to db onetomany
```

2. Masukkan syntax “db.nama_tabel.insert({isi tabel})” untuk membuat collections nama_tabel dan insert collections nama_tabel pada database one to many

```
> db.agensi.insert({id:'115',nama:'JYP',alamat:'Jalan Gangnam No.456 Jakarta',no_telp:'031768456846',email:'jyp@yahoo.co
m'})
WriteResult({ "nInserted" : 1 })
> db.agensi.insert({id:'116',nama:'SM ENTERTAINMENT',alamat:'Jalan Cilengsi No.15B Jawa Barat',no_telp:'021678637890',ema
il:'smenter@gmail.com'})
WriteResult({ "nInserted" : 1 })
> db.agensi.insert({id:'117',nama:'Young Gens',alamat:'Jalan Ahmad Yani No.6 Tangerang Selatan',no_telp:'021357463876',e
mail:'ygens@gmail.com'})
WriteResult({ "nInserted" : 1 })
```

3. Syntax “db.nama_tabel.find().pretty()” untuk menampilkan isi tabel yang telah dibuat.

```
> db.agensi.find().pretty()
{
  "_id" : ObjectId("5c772e9dfda55cfe0e90f5d7"),
  "id" : "115",
  "nama" : "JYP",
  "alamat" : "Jalan Gangnam No.456 Jakarta",
  "no_telp" : "031768456846",
  "email" : "jyp@yahoo.com"
}
{
  "_id" : ObjectId("5c772fdefda55cfe0e90f5d8"),
  "id" : "116",
  "nama" : "SM ENTERTAINMENT",
  "alamat" : "Jalan Cilengsi No.15B Jawa Barat",
  "no_telp" : "021678637890",
  "email" : "smenter@gmail.com"
}
{
  "_id" : ObjectId("5c77319dfda55cfe0e90f5d9"),
  "id" : "117",
  "nama" : "Young Gens",
  "alamat" : "Jalan Ahmad Yani No.6 Tangerang Selatan",
  "no_telp" : "021357463876",
  "email" : "ygens@gmail.com"
}
```

4. Ulangi perintah pada langkah nomor 2 dan 3.

```
> db.artis.insert({id:'A1',agensi_id:'115',nama_artis:'Twice',lagu:'Likey',tahun:'2017'})
WriteResult({ "nInserted" : 1 })
> db.artis.insert({id:'56B',agensi_id:'117',nama_artis:'Blackpink',lagu:'Du Ddu Du Ddu',tahun:'2018'})
WriteResult({ "nInserted" : 1 })
> db.artis.insert({id:'74C',agensi_id:'117',nama_artis:'IKon',lagu:'Im Okay',tahun:'2019'})
WriteResult({ "nInserted" : 1 })
> db.artis.insert({id:'953',agensi_id:'116',nama_artis:'Red Velvet',lagu:'Power Up',tahun:'2019'})
WriteResult({ "nInserted" : 1 })
> db.artis.insert({id:'964',agensi_id:'116',nama_artis:'EXO',lagu:'KoKoBop',tahun:'2018'})
WriteResult({ "nInserted" : 1 })

> db.artis.find().pretty()
{
  "_id" : ObjectId("5c773934fda55cfe0e90f5da"),
  "id" : "A1",
  "agensi_id" : "115",
  "nama_artis" : "Twice",
  "lagu" : "Likey",
  "tahun" : "2017"
}
{
  "_id" : ObjectId("5c7739a3fda55cfe0e90f5db"),
  "id" : "56B",
  "agensi_id" : "117",
  "nama_artis" : "Blackpink",
  "lagu" : "Du Ddu Du Ddu",
  "tahun" : "2018"
}
{
  "_id" : ObjectId("5c7739effda55cfe0e90f5dc"),
  "id" : "74C",
  "agensi_id" : "117",
  "nama_artis" : "IKon",
  "lagu" : "Im Okay",
  "tahun" : "2019"
}
{
  "_id" : ObjectId("5c773a67fda55cfe0e90f5dd"),
  "id" : "953",
  "agensi_id" : "116",
  "nama_artis" : "Red Velvet",
  "lagu" : "Power Up",
  "tahun" : "2019"
}
{
  "_id" : ObjectId("5c773aa5fda55cfe0e90f5de"),
```

B. MANY TO MANY

1. Mahasiswa

```
> db.mhs.find().pretty()
{
  "_id" : ObjectId("5c76a4528d64dc1dfa5d76de"),
  "nim" : "1122",
  "nama" : "sumilah",
  "email" : "sumilah@gmail.com",
  "alamat_kost" : "ketintang",
  "telp" : "08123456"
}
{
  "_id" : ObjectId("5c76a4dc8d64dc1dfa5d76df"),
  "nim" : "3322",
  "nama" : "jumilah",
  "email" : "jumilah@gmail.com",
  "alamat_kost" : "ptttimur5",
  "telp" : "08247844"
}
{
  "_id" : ObjectId("5c76a5288d64dc1dfa5d76e0"),
  "nim" : "4433",
  "nama" : "sitilah",
  "email" : "sitilah@gmail.com",
  "alamat_kost" : "ptttimur4",
  "telp" : "082789650"
}
{
  "_id" : ObjectId("5c76a57b8d64dc1dfa5d76e1"),
  "nim" : "2255",
  "nama" : "jeli",
  "email" : "jeli@gmail.com",
  "alamat_kost" : "ketintangbarat",
  "telp" : "082765412"
}
{
  "_id" : ObjectId("5c76a5ac8d64dc1dfa5d76e2"),
  "nim" : "2245",
  "nama" : "uli",
  "email" : "uli@gmail.com",
  "alamat_kost" : "ketintangbaratindah",
  "telp" : "082765409"
}
>
```

2. Pilihan matkul

```
db.matakulia.find().pretty()

  "_id" : ObjectId("5c76aec48d64dc1dfa5d76ed"),
  "id" : "2020",
  "matkul" : "bahasainggris",
  "sks" : "2"

  "_id" : ObjectId("5c76afa28d64dc1dfa5d76ee"),
  "id" : "2022",
  "matkul" : "sim",
  "sks" : "2"

  "_id" : ObjectId("5c76afbd8d64dc1dfa5d76ef"),
  "id" : "2029",
  "matkul" : "jarkom",
  "sks" : "3"

  "_id" : ObjectId("5c76afda8d64dc1dfa5d76f0"),
  "id" : "2030",
  "matkul" : "basdat",
  "sks" : "2"

  "_id" : ObjectId("5c76afbd8d64dc1dfa5d76ef"),
  "id" : "2029",
  "matkul" : "jarkom",
  "sks" : "3"
}
{
  "_id" : ObjectId("5c76afda8d64dc1dfa5d76f0"),
  "id" : "2030",
  "matkul" : "basdat",
  "sks" : "2"
}
{
  "_id" : ObjectId("5c76b0038d64dc1dfa5d76f1"),
  "id" : "2035",
  "matkul" : "matematika",
  "sks" : "3"
}
>
```

3. Matkul

```
{
  "_id" : ObjectId("5c76a7398d64dc1dfa5d76e3"),
  "id" : "bahasainggris",
  "nim" : "2245"
}
{
  "_id" : ObjectId("5c76a75d8d64dc1dfa5d76e4"),
  "id" : "jarkom",
  "nim" : "3322"
}
{
  "_id" : ObjectId("5c76a77a8d64dc1dfa5d76e5"),
  "id" : "basdat",
  "nim" : "4433"
}
{
  "_id" : ObjectId("5c76a7a18d64dc1dfa5d76e6"),
  "id" : "matematika",
  "nim" : "1122"
}
{
  "_id" : ObjectId("5c76a7ec8d64dc1dfa5d76e7"),
  "id" : "sim",
  "nim" : "2255"
```

cmd C:\WINDOWS\system32\cmd.exe - mongo

```
{
  "id" : "sim",
  "nim" : "2255"
}
> db.matkul_pilihan.find().pretty()
{
  "_id" : ObjectId("5c76ace08d64dc1dfa5d76e8"),
  "id" : "2020",
  "nim" : "4433"
}
{
  "_id" : ObjectId("5c76ad478d64dc1dfa5d76e9"),
  "id" : "2022",
  "nim" : "2245"
}
{
  "_id" : ObjectId("5c76ad5f8d64dc1dfa5d76ea"),
  "id" : "2029",
  "nim" : "3322"
}
{
  "_id" : ObjectId("5c76ad768d64dc1dfa5d76eb"),
  "id" : "2030",
  "nim" : "1122"
}
{
  "_id" : ObjectId("5c76ad888d64dc1dfa5d76ec"),
  "id" : "2035",
  "nim" : "2255"
}
>
```

4. Remove

C:\WINDOWS\system32\cmd.exe - mongo

```
> db.pembeli.remove({id: "9954"})
WriteResult({ "nRemoved" : 1 })
> db.pembeli.find().pretty()

  "_id" : ObjectId("5c7698a88d64dc1dfa5d76d4"),
  "id" : "3456",
  "tanggal" : "25",
  "jumlah_barang" : "7",
  "harga_satuan" : "7000",
  "total" : "49000"

  "_id" : ObjectId("5c7699288d64dc1dfa5d76d5"),
  "id" : "8708",
  "tanggal" : "22",
  "jumlah_barang" : "4",
  "harga_satuan" : "9000",
  "total" : "36000"

  "_id" : ObjectId("5c7699c58d64dc1dfa5d76d6"),
  "id" : "1122",
  "tanggal" : "20",
  "jumlah_barang" : "8",
  "harga_satuan" : "9000",
  "total" : "72000"

  "_id" : ObjectId("5c769a1a8d64dc1dfa5d76d7"),
```

5. Update

```
    "tanggal" : "18",
    "jumlah_barang" : "9",
    "harga_satuan" : "9000",
    "total" : "81000"

db.pembeli.find({id
.. db.pembeli.insert({id:'1122', tanggal: '20', jumlah_barang:'8', harga_satuan:'9000', total:'72000'})
..
.. })
019-02-27T21:14:03.959+0700 E QUERY    [js] SyntaxError: missing : after property id @(shell):2:0
db.pembeli.find({id:barang})
019-02-27T21:15:00.898+0700 E QUERY    [js] ReferenceError: barang is not defined :
(shell):1:18
db.pembeli.update({"id" : "barang" },{$set: {"id" : "9954"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
db.pembeli.find().pretty()

  "_id" : ObjectId("5c76914b8d64dc1dfa5d76d3"),
  "id" : "9954",
  "tanggal" : "27",
  "jumlah_barang" : "2",
  "harga_satuan" : "10000",
  "total" : "20000"
```

6. Insert

```
C:\WINDOWS\system32\cmd.exe - mongo
---
Enable MongoDB's free cloud-based monitoring service, which will then receive and display
metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you
and anyone you share the URL with. MongoDB may use this information to make product
improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
---

> show dbs
admin 0.000GB
config 0.000GB
local 0.000GB
> use onetomany
switched to db onetomany
> db.pembeli.insert({id:'barang', tanggal:'27', jumlah_barang:'2', harga_satuan:'10000', total:'20000'})
WriteResult({ "nInserted" : 1 })
> db.pembeli.find().pretty()
{
  "_id" : ObjectId("5c76914b8d64dc1dfa5d76d3"),
  "id" : "barang",
  "tanggal" : "27",
  "jumlah_barang" : "2",
  "harga_satuan" : "10000",
  "total" : "20000"
}
> db.pembeli.insert({id:'barang', tanggal:'27', jumlah_barang:'2', harga_satuan:'10000', total:'20000'})
```