# ACT SBD2

| | |
|---|---|
| Mata Praktikum | : Sistem Basis Data 2 |
| Kelas | : 3IA02 |
| Praktikum ke- | : 6 |
| Tanggal | : 20/5/2023 |
| Materi | : MongoDB |
| NPM | : 50420562 |
| Nama | : Ibrahim Bramullah |
| Ketua Asisten | : Naufal Maulana |
| Paraf Asisten | : |
| Nama Asisten | : |
| Jumlah Lembar | : 5 Lembar |

Install MongoDB (Check Version on CMD)

```
C:\Users\ibrah>mongod -version
db version v6.0.6
Build Info: {
    "version": "6.0.6",
    "gitVersion": "26b4851a412cc8b9b4a18cdb6cd0f9f642e06aa7",
    "modules": [],
    "allocator": "tcmalloc",
    "environment": {
        "distmod": "windows",
        "distarch": "x86_64",
        "target_arch": "x86_64"
    }
}
```

Create Directory Data

```
{"t":{"$date":"2023-05-19T20:53:16.704-07:00"},"s":"I",  "c":"CONTROL",  "id":23398,   "ctx":"initandlisten","msg":"Targ
et operating system minimum version","attr":{"targetMinOS":"Windows 7/Windows Server 2008 R2"}}
{"t":{"$date":"2023-05-19T20:53:16.704-07:00"},"s":"I",  "c":"CONTROL",  "id":23403,   "ctx":"initandlisten","msg":"Buil
d Info","attr":{"buildInfo":{"version":"6.0.6","gitVersion":"26b4851a412cc8b9b4a18cdb6cd0f9f642e06aa7","modules":[],"all
ocator":"tcmalloc","environment":{"distmod":"windows","distarch":"x86_64","target_arch":"x86_64"}}}}
{"t":{"$date":"2023-05-19T20:53:16.705-07:00"},"s":"I",  "c":"CONTROL",  "id":51765,   "ctx":"initandlisten","msg":"Oper
ating System","attr":{"os":{"name":"Microsoft Windows 10","version":"10.0 (build 22621)"}}}
{"t":{"$date":"2023-05-19T20:53:16.705-07:00"},"s":"I",  "c":"CONTROL",  "id":21951,   "ctx":"initandlisten","msg":"Opti
ons set by command line","attr":{"options":{}}}
{"t":{"$date":"2023-05-19T20:53:16.710-07:00"},"s":"E",  "c":"CONTROL",  "id":20557,   "ctx":"initandlisten","msg":"DBEx
ception in initAndListen, terminating","attr":{"error":"NonExistentPath: Data directory C:\\data\\db\\ not found. Create
 the missing directory or specify another path using (1) the --dbpath command line option, or (2) by adding the 'storage
.dbPath' option in the configuration file."}}
{"t":{"$date":"2023-05-19T20:53:16.711-07:00"},"s":"I",  "c":"REPL",     "id":4784900, "ctx":"initandlisten","msg":"Step
ping down the ReplicationCoordinator for shutdown","attr":{"waitTimeMillis":15000}}
{"t":{"$date":"2023-05-19T20:53:16.718-07:00"},"s":"I",  "c":"REPL",     "id":4794602, "ctx":"initandlisten","msg":"Atte
mpting to enter quiesce mode"}
{"t":{"$date":"2023-05-19T20:53:16.718-07:00"},"s":"I",  "c":"-",        "id":6371601, "ctx":"initandlisten","msg":"Shut
ting down the FLE Crud thread pool"}
{"t":{"$date":"2023-05-19T20:53:16.718-07:00"},"s":"I",  "c":"COMMAND",  "id":4784901, "ctx":"initandlisten","msg":"Shut
ting down the MirrorMaestro"}
{"t":{"$date":"2023-05-19T20:53:16.718-07:00"},"s":"I",  "c":"SHARDING", "id":4784902, "ctx":"initandlisten","msg":"Shut
ting down the WaitForMajorityService"}
{"t":{"$date":"2023-05-19T20:53:16.719-07:00"},"s":"I",  "c":"NETWORK",  "id":20562,   "ctx":"initandlisten","msg":"Shut
down: going to close listening sockets"}
{"t":{"$date":"2023-05-19T20:53:16.719-07:00"},"s":"I",  "c":"NETWORK",  "id":4784905, "ctx":"initandlisten","msg":"Shut
ting down the global connection pool"}
{"t":{"$date":"2023-05-19T20:53:16.719-07:00"},"s":"I",  "c":"CONTROL",  "id":4784906, "ctx":"initandlisten","msg":"Shut
ting down the FlowControlTicketholder"}
{"t":{"$date":"2023-05-19T20:53:16.719-07:00"},"s":"I",  "c":"-",        "id":20520,   "ctx":"initandlisten","msg":"Stop
```
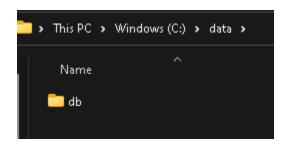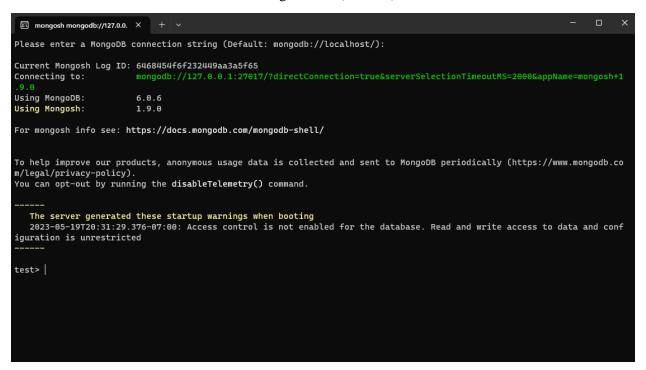
This PC > Windows (C:) > data >

Name

db

## Mongos Shell (Default)



```
mongosh mongodb://127.0.0.    ×    +   ∨                                    —   □   ×

Please enter a MongoDB connection string (Default: mongodb://localhost/):

Current Mongosh Log ID: 6468454f6f232449aa3a5f65
Connecting to:          mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1
.9.0
Using MongoDB:          6.0.6
Using Mongosh:          1.9.0

For mongosh info see: https://docs.mongodb.com/mongodb-shell/


To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.co
m/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.

------
   The server generated these startup warnings when booting
   2023-05-19T20:31:29.376-07:00: Access control is not enabled for the database. Read and write access to data and conf
iguration is unrestricted
------

test> |
```

## Available Database



```
test> use db_mahasiswa
switched to db db_mahasiswa
db_mahasiswa> show dbs
admin    40.00 KiB
config   12.00 KiB
local    40.00 KiB
db_mahasiswa> |
```

## Create Database



```
test> use db_mahasiswa
switched to db db_mahasiswa
db_mahasiswa> show dbs
admin    40.00 KiB
config   12.00 KiB
local    40.00 KiB
db_mahasiswa> db.db_mahasiswa.insert({"nama": "Ibrahim Bramullah", "npm": 50420562, "Alamat": "Pondok Pinang"})
```

## Show Database

```
db_mahasiswa> show dbs
admin           40.00 KiB
config          60.00 KiB
db_mahasiswa     8.00 KiB
local           40.00 KiB
db_mahasiswa> db.db_mahasiswa.find()
[
  {
    _id: ObjectId("646846626f232449aa3a5f66"),
    nama: 'Ibrahim Bramullah',
    npm: 50420562,
    Alamat: 'Pondok Pinang'
  }
]
db_mahasiswa> |
```

## Updated Data

```
db_mahasiswa> db.db_mahasiswa.update({"_id": ObjectId("646846626f232449aa3a5f66")}, {$set:{"Alamat": "Kebayoran Lama, Pondok Pinang"}})
DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
db_mahasiswa> db.db_mahasiswa.find()
[
  {
    _id: ObjectId("646846626f232449aa3a5f66"),
    nama: 'Ibrahim Bramullah',
    npm: 50420562,
    Alamat: 'Kebayoran Lama, Pondok Pinang'
  }
]
db_mahasiswa> |
```

## Remove Data

```
db_mahasiswa> db.db_mahasiswa.remove({"_id": ObjectId("646846626f232449aa3a5f66")})
DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.
{ acknowledged: true, deletedCount: 1 }
db_mahasiswa> db.db_mahasiswa.find()
db_mahasiswa> |
```

## Mongo Query

```
use db_mahasiswa

--insert
db.db_mahasiswa.insert({"nama": "Ibrahim Bramullah",
"npm": 50420562, "Alamat": "Pondok Pinang"})

--show all data
show dbs

--show choosen data
db.db_mahasiswa.find()

--update data
db.db_mahasiswa.update({"_id":
ObjectId("646846626f232449aa3a5f66")}, {$set:"Alamat":
"Kebayoran Lama, Pondok Pinang"})

--delete data
db.db_mahasiswa.remove({"_id":
ObjectId("646846626f232449aa3a5f66")})
```