

# Phase 2 - Day 4

## MongoDB

- In Day 4 I worked in mongodb commands in command prompt

### CODE:

```
C:\Users\munee>mongosh
Current Mongosh Log ID: 64ca0aafa578238afd0af6c0
Connecting to:
mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&
appName=mongosh+1.10.3
Using MongoDB:      6.0.8
Using Mongosh:      1.10.3
```

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

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

```
-----
The server generated these startup warnings when booting
2023-08-02T13:12:11.351+05:30: Access control is not enabled for the database.
Read and write access to data and configuration is unrestricted
-----
```

```
test> show dbs
admin  40.00 KiB
config 12.00 KiB
local  40.00 KiB
test> show dbs
Sample 8.00 KiB
admin  40.00 KiB
config 72.00 KiB
local  40.00 KiB
test> db
test
test> use payoda;
switched to db payoda
payoda> db.createCollection("Employees")
```

```

{ ok: 1 }
payoda> db.Employees.insertOne({});
{
  acknowledged: true,
  insertedId: ObjectId("64cb3d56a578238afd0af6c1")
}
payoda> db.Employees.insertOne({name:"AAA"});
{
  acknowledged: true,
  insertedId: ObjectId("64cb3d81a578238afd0af6c2")
}
payoda> db.Employees.insertMany({name:"BBB"},{name:"CCC"},{});
MongoInvalidArgumentError: Argument "docs" must be an array of documents
payoda> db.Employees.insertMany({name:"BBB"},{name:"CCC"});
MongoInvalidArgumentError: Argument "docs" must be an array of documents
payoda> db.Employees.insertMany({{name:"BBB"},{name:"CCC"}});
Uncaught:
SyntaxError: Unexpected token (1:25)

> 1 | db.Employees.insertMany({{name:"BBB"},{name:"CCC"}});
    |                        ^
    2 |

payoda> db.Employees.insertMany([{{name:"BBB"},{name:"CCC"}}]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64cb3e41a578238afd0af6c3"),
    '1': ObjectId("64cb3e41a578238afd0af6c4")
  }
}
payoda> db.Employees.find()
[
  { _id: ObjectId("64cb3d56a578238afd0af6c1") },
  { _id: ObjectId("64cb3d81a578238afd0af6c2"), name: 'AAA' },
  { _id: ObjectId("64cb3e41a578238afd0af6c3"), name: 'BBB' },
  { _id: ObjectId("64cb3e41a578238afd0af6c4"), name: 'CCC' }
]
payoda> db.Employees.find({name:"AAA"},{name:"BBB"})
[ { _id: ObjectId("64cb3d81a578238afd0af6c2"), name: 'BBB' } ]
payoda> db.Employees.find({name:"BBB"})
[ { _id: ObjectId("64cb3e41a578238afd0af6c3"), name: 'BBB' } ]
payoda> db.Employees.find({})
[

```

```

    { _id: ObjectId("64cb3d56a578238afd0af6c1") },
    { _id: ObjectId("64cb3d81a578238afd0af6c2"), name: 'AAA' },
    { _id: ObjectId("64cb3e41a578238afd0af6c3"), name: 'BBB' },
    { _id: ObjectId("64cb3e41a578238afd0af6c4"), name: 'CCC' }
  ]
payoda> db.Employees.find({}, {name:1})
[
  { _id: ObjectId("64cb3d56a578238afd0af6c1") },
  { _id: ObjectId("64cb3d81a578238afd0af6c2"), name: 'AAA' },
  { _id: ObjectId("64cb3e41a578238afd0af6c3"), name: 'BBB' },
  { _id: ObjectId("64cb3e41a578238afd0af6c4"), name: 'CCC' }
]
payoda> db.Employees.find({}, {name:0})
[
  { _id: ObjectId("64cb3d56a578238afd0af6c1") },
  { _id: ObjectId("64cb3d81a578238afd0af6c2") },
  { _id: ObjectId("64cb3e41a578238afd0af6c3") },
  { _id: ObjectId("64cb3e41a578238afd0af6c4") }
]
payoda> db.Employees.find({}, {_id:0})
[ {}, { name: 'AAA' }, { name: 'BBB' }, { name: 'CCC' } ]
payoda> db.Employees.find({}, {_id:0,name:0})
[ {}, {}, {}, {} ]
payoda> db.Employees.updateOne({name:"AAA"},{$set:{name:"aaa"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
payoda> db.Employees.find({})
[
  { _id: ObjectId("64cb3d56a578238afd0af6c1") },
  { _id: ObjectId("64cb3d81a578238afd0af6c2"), name: 'aaa' },
  { _id: ObjectId("64cb3e41a578238afd0af6c3"), name: 'BBB' },
  { _id: ObjectId("64cb3e41a578238afd0af6c4"), name: 'CCC' }
]
payoda> db.Employees.updateOne({name:"aaa"},{$set:{name:"AAA"}},{upsert:true})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,

```

```

    upsertedCount: 0
  }
payoda> db.Employees.updateOne({},{$set:{name:"DDD"}},{upsert:true})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
payoda> db.Employees.find({})
[
  { _id: ObjectId("64cb3d56a578238afd0af6c1"), name: 'DDD' },
  { _id: ObjectId("64cb3d81a578238afd0af6c2"), name: 'AAA' },
  { _id: ObjectId("64cb3e41a578238afd0af6c3"), name: 'BBB' },
  { _id: ObjectId("64cb3e41a578238afd0af6c4"), name: 'CCC' }
]
payoda> db.Employees.updateOne({},{$set:{name:"DDD"}},{upsert:true})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 0,
  upsertedCount: 0
}
payoda> db.Employees.deleteOne({name:"DDD"})
{ acknowledged: true, deletedCount: 1 }
payoda> db.Employees.find({})
[
  { _id: ObjectId("64cb3d81a578238afd0af6c2"), name: 'AAA' },
  { _id: ObjectId("64cb3e41a578238afd0af6c3"), name: 'BBB' },
  { _id: ObjectId("64cb3e41a578238afd0af6c4"), name: 'CCC' }
]
payoda> db.Employees.deleteMany()
MongoShellInvalidInputError: [COMMON-10001] Missing required argument at position 0
(Collection.deleteMany)
payoda> db.Employees.deleteMany({})
{ acknowledged: true, deletedCount: 3 }
payoda> db.Employees.insertOne({name:"AAA" age})
Uncaught:
SyntaxError: Unexpected token, expected ",", (1:35)

> 1 | db.Employees.insertOne({name:"AAA" age})
    |                               ^

```

2 |

```
payoda> db.Employees.insertOne({name:"AAA" age:20})
```

Uncaught:

SyntaxError: Unexpected token, expected ",", (1:35)

```
> 1 | db.Employees.insertOne({name:"AAA" age:20})
```

```
    |                               ^
```

2 |

```
payoda> db.Employees.insertOne({name:"AAA" ,age:20})
```

```
{
  acknowledged: true,
  insertedId: ObjectId("64cb4c1da578238afd0af6c5")
}
```

```
payoda> db.Employees.insertOne({name:"BBB" ,age:25})
```

```
{
  acknowledged: true,
  insertedId: ObjectId("64cb4c2ba578238afd0af6c6")
}
```

```
payoda> db.Employees.insertOne({name:"CCC" ,age:15})
```

```
{
  acknowledged: true,
  insertedId: ObjectId("64cb4c3aa578238afd0af6c7")
}
```

```
payoda> db.Employees.find({})
```

```
[
  { _id: ObjectId("64cb4c1da578238afd0af6c5"), name: 'AAA', age: 20 },
  { _id: ObjectId("64cb4c2ba578238afd0af6c6"), name: 'BBB', age: 25 },
  { _id: ObjectId("64cb4c3aa578238afd0af6c7"), name: 'CCC', age: 15 }
]
```

```
payoda> db.users.insertOne({
```

```
...   name: "John Doe",
...   age: 30,
...   email: "john.doe@example.com",
...   isActive: true
```

```
...
...
... })
```

```
{
  acknowledged: true,
  insertedId: ObjectId("64cb4d7ca578238afd0af6c8")
}
```

```
payoda> db.users.find({})
```

```

[
  {
    _id: ObjectId("64cb4d7ca578238afd0af6c8"),
    name: 'John Doe',
    age: 30,
    email: 'john.doe@example.com',
    isActive: true
  }
]
payoda> db.users.find({age: {$gt:25}},{_id:0})
[
  {
    name: 'John Doe',
    age: 30,
    email: 'john.doe@example.com',
    isActive: true
  }
]
payoda> db.users.find({age: {$gt:25}},{_id:0,name:1})
[ { name: 'John Doe' } ]
payoda> db.users.find({age: {$lt:25}},{_id:0,name:1})

payoda> db.users.find({age: {$lt:35}},{_id:0,name:1})
[ { name: 'John Doe' } ]
payoda> db.users.find({age: {$lt:35}},{name:1,age:0})
MongoServerError: Cannot do exclusion on field age in inclusion projection
payoda> db.users.insertOne({ name: "Jane Doe", age: 20, email:
"jane.doe@example.com", isActive: false })
{
  acknowledged: true,
  insertedId: ObjectId("64cb4fb3a578238afd0af6c9")
}
payoda> db.users.find({name:"John Doe",{age:{$gt: 23}}})
Uncaught:
SyntaxError: Unexpected token (1:31)

> 1 | db.users.find({name:"John Doe",{age:{$gt: 23}}})
    |                                     ^
    2 |

payoda> db.users.find({name:"John Doe",age:{$gt: 23}})
[
  {
    _id: ObjectId("64cb4d7ca578238afd0af6c8"),

```

```

    name: 'John Doe',
    age: 30,
    email: 'john.doe@example.com',
    isActive: true
  }
]
payoda> db.users.find({name:"John Doe",age:{$gt: 30}})

payoda> db.users.find({name:"John Doe",age:{$gt: 30},{isActive:1})

payoda> db.users.find({name:"John Doe",age:{$gt: 25},{isActive:1})
[ { _id: ObjectId("64cb4d7ca578238afd0af6c8"), isActive: true } ]
payoda> db.users.find({age: {$in:[25,30]},{_id:0})
[
  {
    name: 'John Doe',
    age: 30,
    email: 'john.doe@example.com',
    isActive: true
  }
]
payoda> db.users.find({$or: [{name:"John Doe"},{name:"Jane Doe"}]},{_id:0})
[
  {
    name: 'John Doe',
    age: 30,
    email: 'john.doe@example.com',
    isActive: true
  },
  {
    name: 'Jane Doe',
    age: 20,
    email: 'jane.doe@example.com',
    isActive: false
  }
]
payoda> db.users.find({age: {$nin:[25,30]},{_id:0})
[
  {
    name: 'Jane Doe',
    age: 20,
    email: 'jane.doe@example.com',
    isActive: false
  }
]

```