- Create Database as a sampled, create collection sample
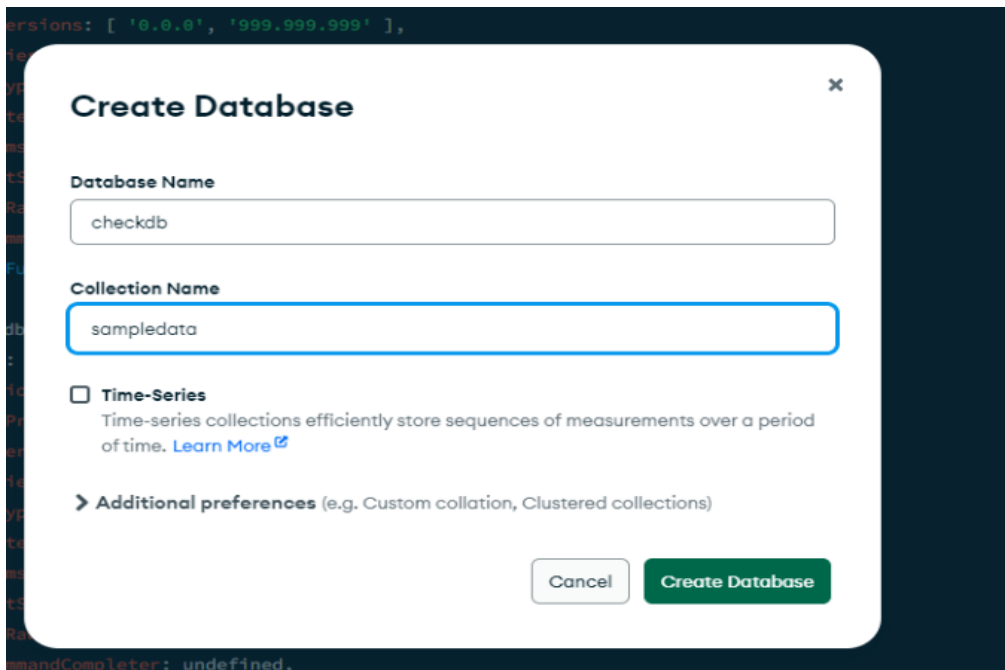
```
> use SampleDb;
< switched to db SampleDb
```

- Drop Database SampleDb

```
db.dropDatabase()
{ ok: 1, dropped: 'SampleDb' }
show databases
admin    40.00 KiB
config   72.00 KiB
local    88.00 KiB
unidb    72.00 KiB
```

- Create Database checkdb, collection sampledata

```
use checkdb
switched to db checkdb
```

Create Database

Database Name

checkdb

Collection Name

sampledata

☐ **Time-Series**
Time-series collections efficiently store sequences of measurements over a period
of time. Learn More

> **Additional preferences** (e.g. Custom collation, Clustered collections)

Cancel   Create Database

- Drop collection sampledata

```
db.sampledata.drop()
true
show databases
admin     40.00 KiB
config  108.00 KiB
local     88.00 KiB
unidb     72.00 KiB
```

- Insert Documents

Insert Document

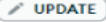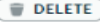To collection unidb.degrees

VIEW {} ≡

```
1    /**
2     * Paste one or more documents here
3     */
4  ▾ {
5  ▾   "_id": {
6         "$oid": "680ee9390937de0b64ee8b41"
7       },
8       "name": "BIT",
9       "duration": 3
10    }
```

Cancel   Insert

- Insert multiple documents

⊕ ADD DATA ▾   ☰ EXPORT DATA ▾   ✎ UPDATE   🗑 DELETE   25 ▾ 1 – 5

```
_id: ObjectId('680ee9390937de0b64ee8b41')
name : "BIT"
duration : 3


_id: ObjectId('680ee98a0937de0b64ee8b42')
name : "B.Sc in IT"
duration : 4


_id: ObjectId('680eeb000937de0b64ee8b44')
name : "B.Sc in Environmental Science"
duration : 4


_id: ObjectId('680eeb000937de0b64ee8b45')
name : "B.Sc in Applied Mathematics"
duration : 3


_id: ObjectId('680eeb000937de0b64ee8b46')
name : "B.Sc in Computer Science"
duration : 4
```

- Delete particular object id
    - db.degrees.deleteOne({_id:ObjectId('680ee930b537f96c4d777d54')})

```
db.degrees.deleteOne({_id:ObjectId('680ee930b537f96c4d777d54')})
{
  acknowledged: true,
  deletedCount: 1
}
```

- Check whether its deleted
    - db.degrees.find().projection(['name','duration'])

```
db.degrees.find().projection(['name','duration'])
{
  _id: ObjectId('680ee97bb537f96c4d777d55'),
  name: 'B.Sc in IT',
  duration: 4
}
{
  _id: ObjectId('680eeaf4b537f96c4d777d57'),
  name: 'B.Sc in Applied Methamatics',
  duration: 3
}
{
  _id: ObjectId('680eeb3cb537f96c4d777d58'),
  name: 'B.Sc in Computer Science',
  duration: 4
}
{
  _id: ObjectId('680eeb61b537f96c4d777d59'),
  name: 'Bsc in Environmental Science',
  duration: 4
}
```

- Select certain data(name only)
    - db.degrees.find({},{name:1,_id:0}).pretty()

```
db.degrees.find({},{name:1,_id:0}).pretty()
{
  name: 'B.Sc in IT'
}
{
  name: 'B.Sc in Applied Methamatics'
}
{
  name: 'B.Sc in Computer Science'
}
{
  name: 'Bsc in Environmental Science'
}
```

- Delete students whose degree duration less than 4
  - db.degrees.deleteMany({duration:{$lt:4}})

```
> db.degrees.deleteMany({duration:{$lt:4}})
< {
    acknowledged: true,
    deletedCount: 1
  }
```

  - db.degrees.find({},{name:1,_id:0}).pretty()

```
> db.degrees.find({},{name:1,_id:0}).pretty()
< {
    name: 'B.Sc in IT'
  }
  {
    name: 'B.Sc in Computer Science'
  }
  {
    name: 'Bsc in Environmental Science'
  }
```

- Updates

  Update contain 2 operation,

  - db.degrees.updateOne({_id:ObjectId('680eef94b537f96c4d777d5b')},{$set:{name:'BIT',duration:3}})

```
> db.degrees.updateOne({_id:ObjectId('680eef94b537f96c4d777d5b')},{$set:{name:'BIT',duration:3}})
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
```

  - what document we want to update,what the value swe want to update

----

- Find update data
  - db.degrees.findOne({_id:ObjectId('680eef94b537f96c4d777d5b')})

5

```
> db.degrees.findOne({_id:ObjectId('680eef94b537f96c4d777d5b')})
< {
    _id: ObjectId('680eef94b537f96c4d777d5b'),
    name: 'BIT',
    duration: 3
  }
```

- update many

  Increase duration by one which duration is greater than 4

  - db.degrees.updateMany({duration:{$gte:4}},{$inc:{duration:1}})

```
> db.degrees.updateMany({duration:{$gte:4}},{$inc:{duration:1}})
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 3,
    modifiedCount: 3,
    upsertedCount: 0
  }
```

- Add new certain skill to the students

  Push-add elements only

  Db.students.updateOne({regno:'2021IT001'},{$push:{skills:'PHP'}})

```
> db.students.updateOne({regno:'2021IT001'},{$push:{skills:'PHP'}})
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
unidb>
```

- find
  - db.degrees.find()

```
> db.degrees.find()
< {
    _id: ObjectId('680ee97bb537f96c4d777d55'),
    name: 'B.Sc in IT',
    duration: 5
  }
  {
    _id: ObjectId('680eeb3cb537f96c4d777d58'),
    name: 'B.Sc in Computer Science',
    duration: 5
  }
  {
    _id: ObjectId('680eeb61b537f96c4d777d59'),
    name: 'Bsc in Environmental Science',
    duration: 5
  }
  {
    _id: ObjectId('680eef94b537f96c4d777d5b'),
    name: 'BIT',
    duration: 3
  }
```

Db.students.findOne({Regno:'2021IT001'})

```
> db.students.findOne({regno:'2021IT001'})
< {
    _id: ObjectId('6809be213a66cfb0140e2c8c'),
    regno: '2021IT001',
    name: 'Kolin',
    age: 25,
    degree: 'IT',
    gpa: 3.2,
    skils: [
      'Js',
      'Mongodb',
      'Node',
      'PHP'
    ]
```