

- Create Database as a sampled, create collection sample

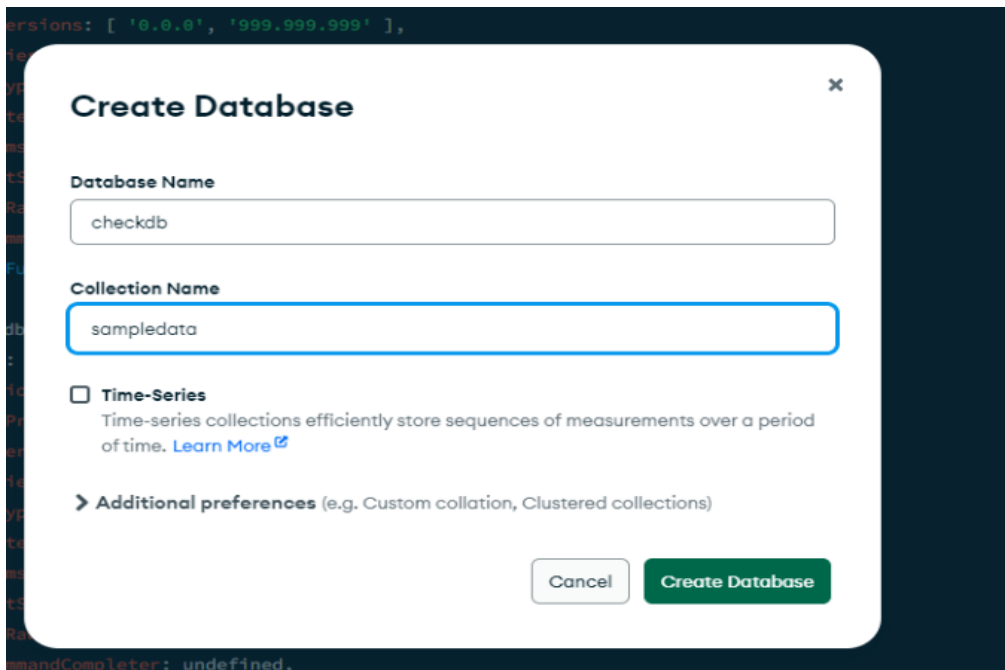
```
> use SampleDb;  
< switched to db SampleDb
```

- Drop Database SampleDb

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

- 
- Create Database checkdb, collection sampledata

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



versions: [ '0.0.0', '999.999.999' ],

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CommandCompleter: undefined,

### 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**



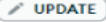
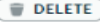
To collection unidb.degrees

VIEW  

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

- Insert multiple documents

    25 1 - 6

```
_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 we want to update

The screenshot shows the MongoDB Compass interface. At the top, there's a query bar with the text "Type a query: { field: 'value' } or [generate query](#)". Below this are buttons for "EXPLAIN", "RESET", "FIND", and "OPTIONS". A toolbar contains "ADD DATA", "EXPORT DATA", "UPDATE", and "DELETE" buttons. The main area displays a list of documents with fields like "\_id", "name", and "duration". A tooltip "Edit document" is visible over the list. Below the list, a detailed view of a document is shown with fields: "\_id: ObjectId('680eef370937de0b64ee8b53')", "name: 'fbb'", and "duration: 4". A yellow banner at the bottom states "Document modified." with "CANCEL" and "UPDATE" buttons.

- Find update data

- `db.degrees.findOne({_id:ObjectId('680eef94b537f96c4d777d5b')})`

```
> 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
}
unmdb>
```

---

- 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,
  skills: [
    'Js',
    'Mongodb',
    'Node',
    'PHP'
  ]
}
```