

IT2234 (p) Web Service and Server Technologies.

University of Vavuniya
Faculty of Applied science
Department of physical science
Tutorial – 02 2021/ICT/84

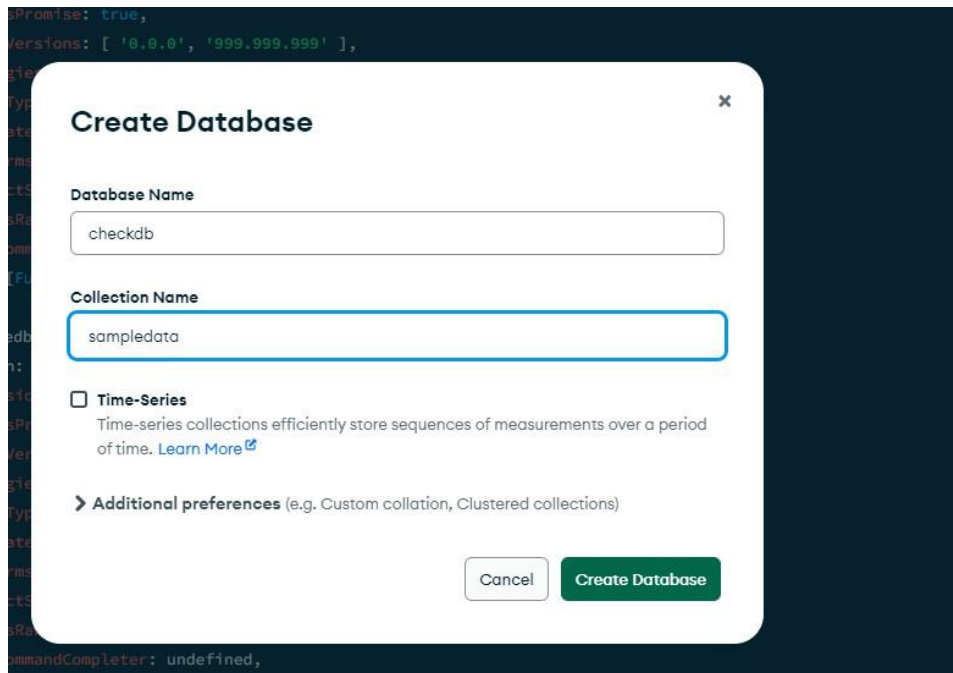
Date: 2024.04.28

Database drop, delete collections, update documents

1. create database as sampledb, create collection sample.

```
> db.dropDatabase()
< { ok: 1, dropped: 'sampledb' }
sampledb> |
```

2. create database checkdb and create collection as sampledata.



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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

3. Drop collection

```
> db.sampledata.drop()
< true
```

4. Write the query to insertMany documents inside the collection degree.

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

```

5. Write the query to delete particular object id.

Query: db.degrees.deleteOne({_id:ObjectId('680ee9390937de0b64ee8b41')})

```
> db.degrees.deleteOne({_id:ObjectId('680ee935fa29c02c1b6b5d7c')})
< {
  acknowledged: true,
  deletedCount: 1
}
unidb>
```

Check whether its deleted

Query: `db.degrees.find().projection(['name','duration'])`

```
> db.degrees.find().projection(['name','duration'])
< {
  _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
}
```

6. Write the query to select certain data (name only)

Query: `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 Environmental Science'
}
{
  name: 'B.Sc in Applied Mathematics'
}
{
  name: 'B.Sc in Computer Science'
}
```

7. Write the query to delete students whose degree duration less than 4.

Query: `db.degrees.deleteMany({duration:{$lt:4}})`

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

```
> db.degrees.find({}, {name:1, _id:0}).pretty()
< {
  name: 'BSc in IT'
}
{
  name: 'B.Sc in Environmetal Science'
}
{
  name: 'B.Sc in Applied Mathametics'
}
{
  name: 'B.Sc in Computer Science'
}
unldb> |
```

8. Write the query to display the data using projection.

Query: db.degrees.find().projection(['name','duration'])

```
> db.degrees.find().projection(['name','duration'])
< {
  _id: ObjectId('680ee998fa29c02c1b6b5d7d'),
  name: 'BSc in IT',
  duration: 4
}
{
  _id: ObjectId('680eea23fa29c02c1b6b5d7e'),
  name: 'B.Sc in Environmetal Science',
  duration: 4
}
{
  _id: ObjectId('680eea23fa29c02c1b6b5d7f'),
  name: 'B.Sc in Applied Mathametics',
  duration: 3
}
{
  _id: ObjectId('680eea23fa29c02c1b6b5d80'),
  name: 'B.Sc in Computer Science',
  duration: 4
}
}
unadb>
```

9. Write the query increase duration by one which duration is greater than 4.

Query: 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
}
```

10. Write the query to add new certain skill to the students.

Push – add elements only

Query: 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
}
unadb>
```