LAB-01 | 14/03/2025

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I Create Database in MongoDB.

1. use myDB;

output:
switched to db myDB

2. show dbs;

output:
admin
config.
local
mydb1

II Create, Read, Update, Delete.

(1) db.createCollection('student');

output: { ok: 1 }

(2) db.student.drop();

output:
true.

(3) db.Student.insert({_id: 1, studname: "michelle joentha", grade: "VII", Hobbies: "Internet surfing"})

output:-

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```
db.students.find()
[
 {
    _id: 1,
    StudName: 'michel joentha',
    Grade: 'VII',
    Hobbies: 'Internet surfing'
 }
]
```

(4) Update:

```
db.student.update({_id:3, StudName: "Anjan
      David', Grade: 'VII'})
```

output.

```
{
 acknowledged: true
 insertedId: 3,
 matiledcount: 0
 modifiedcount: 0,
 upserted(count: 1
}
db.Student.find()
```

output:

```
[
  {
     Hobbies: 'Internet Surfing'
  }
```

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```
{
    _id : 3
    Grade : 'VII'
    studName : 'Anjan David',
    Hobbies : 'skating'
}
]
```

III Import data from csv file.

```
mongoimport --db student --collection airlines --type csv --headerline --file /path.csv
```

IV Aggregate Function.

1. `db.customers.aggregate([{$group:{_id:"$custID", TotAccBal:{$sum:"$AccBal"}}}]);`

2. `db.customers.insertMany([`
   `{custID:1, AccBal:500, AcType:"Seviegs"},`
   `{custID:1, AccBal:1000, AccType:"checkings"},`
   `{custID:2, AccBal:1500, AccType:"savings"}`
   `])`

output :

```
[
  { _id:2, totalAccBal:2000 },
    _id:1, totalAccBal:1500 },
    _id:3, totalAccBal:2000 }
]
```

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```
8) db.customers.aggregate([
    {$match:{AccType:"Savings"}},
    {$group:{_id:'$CustID', totalAccBal:
        {$sum:'$AccBal'}}}
])
```

Output :-

```
[
  {_id:2, totalAccBal:1500},
  {_id:1, totalAccBal:500},
  {_id:3, totalAccBal:20000}
]
```