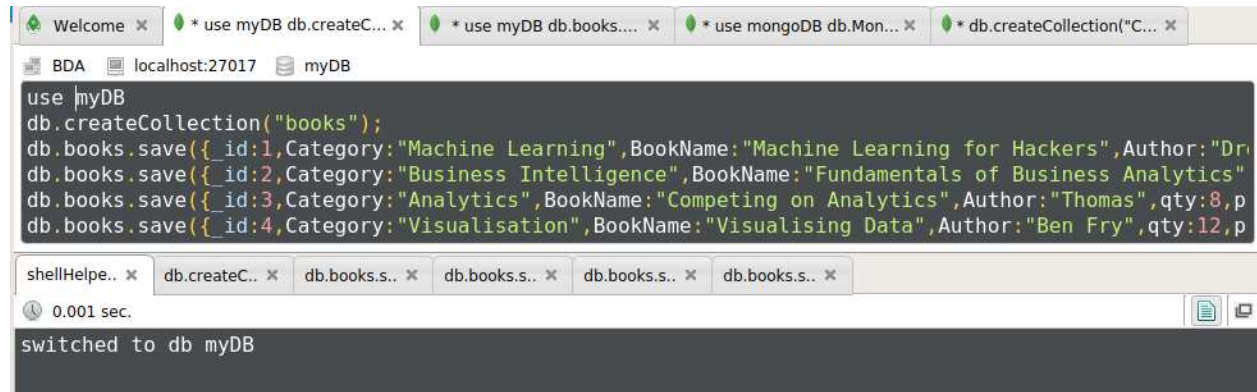


BDA-LAB-4

Name : RAVI KUMAR

USN : 1BM17CS150

OUTPUT



The screenshot displays a MongoDB shell window with the following tabs: 'Welcome', '* use myDB db.createC...', '* use myDB db.books....', '* use mongoDB db.Mon...', and '* db.createCollection("C...'. The main area shows the following commands and their output:

```
use myDB
db.createCollection("books");
db.books.save({_id:1,Category:"Machine Learning",BookName:"Machine Learning for Hackers",Author:"Dr.
db.books.save({_id:2,Category:"Business Intelligence",BookName:"Fundamentals of Business Analytics"
db.books.save({_id:3,Category:"Analytics",BookName:"Competing on Analytics",Author:"Thomas",qty:8,p
db.books.save({_id:4,Category:"Visualisation",BookName:"Visualising Data",Author:"Ben Fry",qty:12,p
```

Below the command area, there are tabs for 'shellHelve..', 'db.createC..', 'db.books.s..', 'db.books.s..', 'db.books.s..', and 'db.books.s..'. A status bar at the bottom indicates '0.001 sec.' and 'switched to db myDB'.

```

use myDB
db.books.mapReduce(
  function() {
    let key = null, value = null;
    if(this.pages >= 300){
      key = "Big books";
      value = this.pages;
    }
    else{
      key = "Small books";
      value = this.pages;
    }
    emit(key, value);
  },
  function(key, values){
    return values.length;
  },
  {

```

Key	Value	Type
(1) Big books	{ 2 fields }	Object
_id	Big books	String
value	2.0	Double
(2) Small books	{ 2 fields }	Object
_id	Small books	String
value	2.0	Double


```

C:\Program Files\MongoDB\Server\4.0\bin>mongoimport -d mongoDB -c MongoDBHandsOn --type csv --headerline --file "bank-data.csv"

```

BDA localhost:27017 mongoDB		
<pre> use mongoDB db.MongoDBHandsOn.aggregate([{ \$group : { _id: null, sum: { \$sum: "\$children" } } }]) db.MongoDBHandsOn.aggregate([{ \$group : { _id: "Avg of Age", avg: { \$avg: "\$age" } } }]) </pre>		
MongoDBHandsOn 0.005 sec.		
Key	Value	Type
(1) Avg of Age	{ 2 fields }	Object
_id	Avg of Age	String
avg	42.395	Double

```
db.createCollection("Country")
db.Country.insert({_id:1,Cities:["Delhi","Banglore"]})
db.Country.insert({_id:2,Cities:["Chennai","Mumbai","Ranchi"]})
db.Country.insert({_id:3,Cities:["Pune","Rajkot","Hyderabad"]})
db.Country.find()
db.Country.find().limit(1)
db.country.find().skip(2).limit(2)
db.Country.update({_id:1},{ $push:{population:{Delhi:30,Banglore:45}}})
db.Country.find()
db.Country.update({_id:3},{ $pop:{Cities:1}})
db.Country.find()
db.Country.update({Cities:"Chennai"},{ $pull:{Cities:'Chennai'}})
db.Country.find()
db.Country.update({_id:1},{ $set:{'Cities.2':'Srinagar'}})
db.Country.update({_id:2},{ $addToSet:{Cities:"Mysore"}})
db.Country.find()
```

Key	Value	Type
▶  (1)	{ 1 field }	Object