

# IBM17CS085

## Assignment 1

```
db.books.save({id:1, Category:"Machine Learning", Bookname:"ML for Hackers",  
Author:"Drew Conway", qty:25, price:400, rol:30, pages:350});
```

```
db.books.save({id:2, Category:"Business Intelligence", Bookname:"Fundamental  
of Business Analytics", Author:"Seema Acharya", qty:55, price:500, rol:30,  
pages:250});
```

```
db.books.save({id:3, Category:"Analytics", Bookname:"Competing with Analytics",  
Author:"Thomas Davenport", qty:8, price:150, rol:20, pages:150});
```

```
db.books.save({id:4, Category:"Visualization", Bookname:"Visualizing Data",  
Author:"Ben Fry", qty:12, price:325, rol:6, pages:450});
```

```
db.books.save({id:5, Category:"Web Mining", Bookname:"Learning R",  
Author:"Richard C", qty:10, price:850, rol:10, pages:120});
```

```
db.books.find()
```

```
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;  
  },  
  {  
    out: "Book_Records"  
  }  
);
```

```
db.Book_Records.find()
```

## Assignment 2

```
mongoimport --db local -c MongoDBHandsOn --type csv --headerline --file  
bank-data.csv
```

```
use local
```

```
db.MongoDBHandsOn.find()
```

```
db.MongoDBHandsOn.aggregate([  
  { $group : { _id: null, sum: { $sum: "$children" } }  
])
```

```
db.MongoDBHandsOn.aggregate([  
  { $group : { _id: "Avg of Age", avg: { $avg: "$age" } }  
])
```

## Lab program

```
use local
```

```
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()
```