

Group B - 2

1.Create Database

use Book;

switched to db Book

> db

Book

2.Insert Data Into Database

```
> db.BookDetails.insert({_id:"ISBN-001",Title:"Big DATA",Publisher:"Tata McGrawHill",Price:654})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> show databases
```

```
Book    0.000GB
```

```
admin   0.000GB
```

```
local   0.000GB
```

```
student 0.000GB
```

```
> db.BookDetails.insert({_id:"ISBN-002",Title:"MySQL DataBase",Publisher:"Tata McGrawHill",Price:1230})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.BookDetails.insert({_id:"ISBN-003",Title:"Data Mining",Publisher:"Prentice Hall",Price:458})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.BookDetails.insert({_id:"ISBN-004",Title:"Hadoop",Publisher:"Prentice Hall",Price:752})
```

```
WriteResult({ "nInserted" : 1 })
```

3.Read all Records from database

```
> db.BookDetails.find()
```

```
{ "_id" : "ISBN-001", "Title" : "Big DATA", "Publisher" : "Tata McGrawHill", "Price" : 654 }
```

```
{ "_id" : "ISBN-002", "Title" : "MySQL DataBase", "Publisher" : "Tata McGrawHill", "Price" : 1230 }
```

```
{ "_id" : "ISBN-003", "Title" : "Data Mining", "Publisher" : "Prentice Hall", "Price" : 458
}
{ "_id" : "ISBN-004", "Title" : "Hadoop", "Publisher" : "Prentice Hall", "Price" : 752 }
```

3.1. Reading One Record from collections

```
> db.BookDetails.find({_id:"ISBN-003"})
{ "_id" : "ISBN-003", "Title" : "Data Mining", "Publisher" : "Prentice Hall", "Price" : 458
}
```

4. Update record in collections

```
> db.BookDetails.update({_id:"ISBN-003"},{$set:{Price:550}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

```
> db.BookDetails.find()
{ "_id" : "ISBN-001", "Title" : "Big DATA", "Publisher" : "Tata McGrawHill", "Price" :
654 }
{ "_id" : "ISBN-002", "Title" : "MySQL DataBase", "Publisher" : "Tata McGrawHill",
"Price" : 1230 }
{ "_id" : "ISBN-003", "Title" : "Data Mining", "Publisher" : "Prentice Hall", "Price" :
550 }
{ "_id" : "ISBN-004", "Title" : "Hadoop", "Publisher" : "Prentice Hall", "Price" : 752 }
```

5. Delete Record from database

```
> db.BookDetails.deleteOne({Title:"Big DATA"})
{ "acknowledged" : true, "deletedCount" : 1 }

> db.BookDetails.find()
{ "_id" : "ISBN-002", "Title" : "MySQL DataBase", "Publisher" : "Tata McGrawHill",
"Price" : 1230 }
{ "_id" : "ISBN-003", "Title" : "Data Mining", "Publisher" : "Prentice Hall", "Price" : 550
}
{ "_id" : "ISBN-004", "Title" : "Hadoop", "Publisher" : "Prentice Hall", "Price" : 752 }
```

5. Save() Method with _id field

```
db.BookDetails.save({_id:"ISBN-002",Title:"MySQL DataBase"})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.BookDetails.find()
{ "_id" : "ISBN-002", "Title" : "MySQL DataBase" }
{ "_id" : "ISBN-003", "Title" : "Data Mining", "Publisher" : "Prentice Hall", "Price" : 550
}
{ "_id" : "ISBN-004", "Title" : "Hadoop", "Publisher" : "Prentice Hall", "Price" : 752 }
> db.BookDetails.save({Title:"Database System",Publisher:"Pearson Asia"})
WriteResult({ "nInserted" : 1 })
```

5.1. save() method without _id field

```
> db.BookDetails.find()
{ "_id" : "ISBN-002", "Title" : "MySQL DataBase" }
{ "_id" : "ISBN-003", "Title" : "Data Mining", "Publisher" : "Prentice Hall", "Price" : 550
}
{ "_id" : "ISBN-004", "Title" : "Hadoop", "Publisher" : "Prentice Hall", "Price" : 752 }
{ "_id" : ObjectId("59d8fa00029ea7986f09b566"), "Title" : "Database System",
"Publisher" : "Pearson Asia" }
```

6. Logical Operators (\$ne , \$exists , \$set)

```
> db.BookDetails.find({$and:[{Title:{$ne:"Data Mining"}},{Price:{$exists:true}}] })

{ "_id" : "ISBN-004", "Title" : "Hadoop", "Publisher" : "Prentice Hall", "Price" : 752 }
>
> db.BookDetails.find({$and:[{Title:{$ne:"Data Mining"}},{Price:{$exists:true}}] })
{ "_id" : "ISBN-004", "Title" : "Hadoop", "Publisher" : "Prentice Hall", "Price" : 752 }
```

```
> db.BookDetails.update({_id:"ISBN-002"},{$set:{Publisher:"Tata McGrawHill",Price:550}})
```

```
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

```
> db.BookDetails.find()
```

```
{ "_id" : "ISBN-002", "Title" : "MySQL DataBase", "Publisher" : "Tata McGrawHill",  
  "Price" : 550 }
```

```
{ "_id" : "ISBN-003", "Title" : "Data Mining", "Publisher" : "Prentice Hall", "Price" : 550  
}
```

```
{ "_id" : "ISBN-004", "Title" : "Hadoop", "Publisher" : "Prentice Hall", "Price" : 752 }
```

```
{ "_id" : ObjectId("59d8fa00029ea7986f09b566"), "Title" : "Database System",  
  "Publisher" : "Pearson Asia" }
```