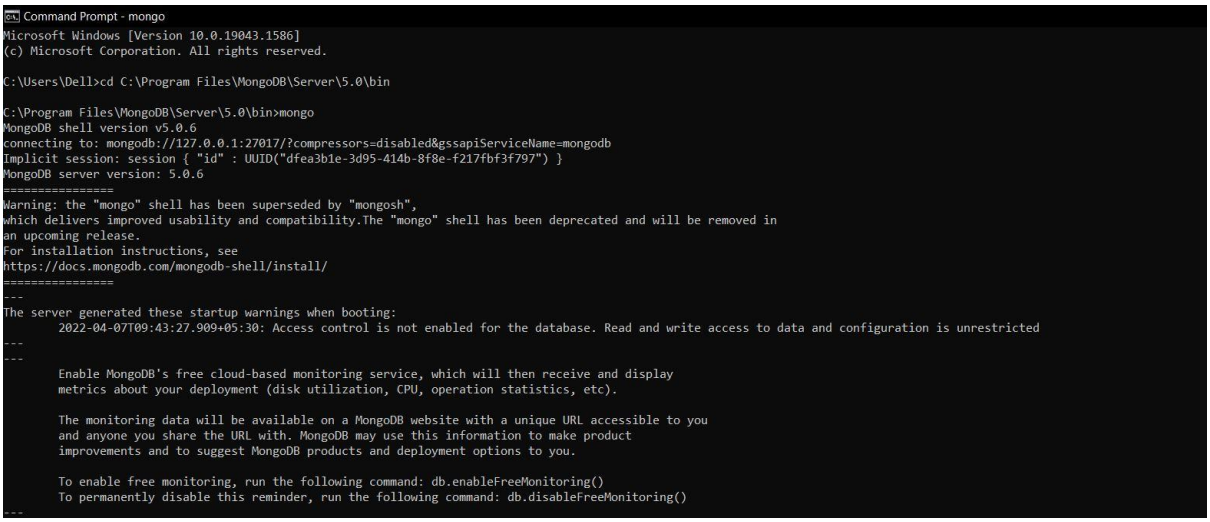
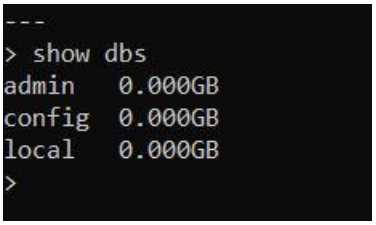
# BIBD MINI PROJECT

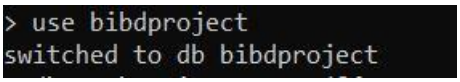
- **Start mongodb shell**




- **show dbs command**




- **use miniproject(creates a database named miniproject)**




**We've created a database named books here, but it is not displayed because its empty, so we need to create a collection first inside this database. To insert document into collection json format is followed.**

**The basic CRUD operations include Create, Read, Update & Delete.**
**The Create commands are of two types "insertOne(data, options)" & "insertMany([data], options)".**
**The Read command are of two types "find(filter, options)" & "findOne(filter, options)".**
**The Update command are of three types "updateOne(filter, data, options)" ; "updateMany(filter, data, options)" & "replaceOne(filter, data, options)".**

**The Delete command are of two types “deleteOne(filter, options)” & “deleteMany(filter, options)**

- **insertOne()**

**We use the insertOne() function to insert one document into a particular collection.**

```
> db.books.insertOne({"name":"ABC","city":"Mumbai","pages":230})
{
        "acknowledged" : true,
        "insertedId" : ObjectId("624fac42009c98fc4e7ef453")
}
>
```

- **insertMany()**

**We use the insertMany() function is use to insert multiple documents into a particular collection at once.**

```
> db.books.insertMany([{"name":"ABC","city":"Mumbai","pages":230},{"name":"LMN","city":"Chennai","pages":150},{"name":"XYZ","city":"Bangalore","pages":200}])
{
        "acknowledged" : true,
        "insertedIds" : [
                ObjectId("624fad06009c98fc4e7ef454"),
                ObjectId("624fad06009c98fc4e7ef455"),
                ObjectId("624fad06009c98fc4e7ef456")
        ]
}
```

- **show collections (lists out all the collections in a db)**

```
> show collections
books
>
```

- **find() (To find the records in a collection)**

```
> db.books.find()
{ "_id" : ObjectId("624fac42009c98fc4e7ef453"), "name" : "ABC", "city" : "Mumbai", "pages" : 230 }
{ "_id" : ObjectId("624fad06009c98fc4e7ef454"), "name" : "ABC", "city" : "Mumbai", "pages" : 230 }
{ "_id" : ObjectId("624fad06009c98fc4e7ef455"), "name" : "LMN", "city" : "Chennai", "pages" : 150 }
{ "_id" : ObjectId("624fad06009c98fc4e7ef456"), "name" : "XYZ", "city" : "Bangalore", "pages" : 200 }
```

- **Display the records of the books with city “Chennai”**

```
> db.books.find({city:"Chennai"})
{ "_id" : ObjectId("624fad06009c98fc4e7ef455"), "name" : "LMN", "city" : "Chennai", "pages" : 150 }
```

- **pretty() (displays the records in a more readable format)**

```
> db.books.find().pretty()
{
        "_id" : ObjectId("624fac42009c98fc4e7ef453"),
        "name" : "ABC",
        "city" : "Mumbai",
        "pages" : 230
}
{
        "_id" : ObjectId("624fad06009c98fc4e7ef454"),
        "name" : "ABC",
        "city" : "Mumbai",
        "pages" : 230
}
{
        "_id" : ObjectId("624fad06009c98fc4e7ef455"),
        "name" : "LMN",
        "city" : "Chennai",
        "pages" : 150
}
{
        "_id" : ObjectId("624fad06009c98fc4e7ef456"),
        "name" : "XYZ",
        "city" : "Bangalore",
        "pages" : 200
}
```

- **updateOne()**

  **We use the updateOne() function to update one document into a particular collection**

- **updateMany()**

  **We use the updateMany() function is use to update multiple documents into a particular collection at once.**

```
> db.books.updateMany({},{$set:{city:"Chennai"}})
{ "acknowledged" : true, "matchedCount" : 9, "modifiedCount" : 6 }
>
```

- **deleteOne()**

  **We use the deleteOne() function to delete one document into a particular collection**

- **deleteMany ()**

  **We use the deleteMany() function is use to delete multiple documents into a particular collection at once.**

```
> db.books.deleteMany({city:"Chennai"})
{ "acknowledged" : true, "deletedCount" : 9 }
```

- **db.collectionname.drop() (used to delete a collection)**

```
> db.books.drop()
true
```

- **db.dropDatabase() (used to delete a database)**

```
> db.dropDatabase()
{ "ok" : 1 }
>
```

- **db.collectionname.count() (used to count the documents in a collection)**

```
> db.books.count()
3
>
```

- **db.collectionname.remove() (used to remove the documents in a collection)**