**1. Create / Use a Database**

use mycompany

**2. Show All Databases**

show databases

**3. Create a Collection**

db.createCollection("products")

**4. Show Collections**

show collections

**5. Insert One Document**

db.products.insertOne({name: "Laptop", price: 50000})

**6. Insert Many Documents**

db.products.insertMany([  
 {name: "Mouse", price: 500},  
 {name: "Keyboard", price: 800}  
])

**7. Show All Documents**

db.products.find()

**8. Find Specific Document**

db.products.find({name: "Mouse"})

**9. Comparison Operator Examples**

db.products.find({price: {$gte: 1000}})  
db.products.find({price: {$lt: 1000}})  
db.products.find({price: {$eq: 800}})

**10. Sorting Data**

db.products.find().sort({price: 1})  
db.products.find().sort({price: -1})

**11. Update One Document**

db.products.updateOne(  
 {name: "Mouse"},  
 {$set: {price: 600}}  
)

**12. Update Many Documents**

db.products.updateMany(  
 {price: {$lt: 1000}},  
 {$set: {category: "Accessories"}}  
)

**13. Delete One Document**

db.products.deleteOne({name: "Mouse"})

**14. Delete Many Documents**

db.products.deleteMany({price: {$lt: 1000}})

**15. Aggregation (sum, avg, count)**

db.sales.insertMany([  
 {item: "Pen", quantity: 10, price: 20},  
 {item: "Notebook", quantity: 5, price: 50},  
 {item: "Pen", quantity: 15, price: 20}  
])  
  
db.sales.aggregate([  
 {$group: {\_id: "$item", totalQty: {$sum: "$quantity"}}}  
])  
  
db.sales.aggregate([  
 {$group: {\_id: "$item", avgPrice: {$avg: "$price"}}}  
])  
  
db.sales.aggregate([  
 {$group: {\_id: "$item", count: {$sum: 1}}}  
])