

MongoDB Basics With Examples

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: "pencil", quantity: 15, price: 20},
  {item: "Pen", quantity: 20, price: 30},
  {item: "Notebook", quantity: 15, price: 60},
  {item: "pencil", quantity: 15, price: 90}
])
```

```
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: {$count:{}}}}
]);
```