MongoDB Notes & Commands

1. show dbs

Shows all available databases.

Example: show dbs

2. use databasename

Switches to a database (creates it when you insert data).

Example: use Mydata

3. show collections

Displays all collections (like tables in SQL) inside the current DB.

Example: show collections

4. db.collection.insertOne({})

Inserts a single document (record).

Example: db.Matter.insertOne({name: "Faiz", type: "emotional"})

5. db.collection.insertMany([{},{},...])

Inserts multiple documents at once.

Example:

db.Matter.insertMany([

```
{name: "Ali", type: "Backend"},
{name: "Sara", type: "Frontend"}
])
```

6. db.collection.find()

Displays all documents in the collection.

Example: db.Matter.find()

7. db.collection.find().pretty()

Neatly displays the documents in readable format.

8. db.createCollection("name")

Manually creates a collection.

Example: db.createCollection("students")

9. db.collection.updateOne(filter, update)

Updates the first matching document.

Example: db.Matter.updateOne({name: "Faiz"}, {\$set: {type: "calm"}})

10. db.collection.updateMany(filter, update)

Updates all documents that match the filter.

Example: db.Matter.updateMany({type: "Frontend"}, {\$set: {type: "UI"}})

11. db.collection.deleteOne(filter)

Deletes the first matching document.

Example: db.Matter.deleteOne({name: "Faiz"})

12. db.collection.deleteMany(filter)

Deletes all matching documents.

Example: db.Matter.deleteMany({type: "UI"})

13. db.collection.drop()

Deletes the entire collection.

Example: db.Matter.drop()

14. db.dropDatabase()

Deletes the current database.

Example: db.dropDatabase()

15. db.collection.countDocuments()

Returns the number of documents in the collection.

Example: db.Matter.countDocuments()

16. db.collection.distinct("field")

Shows all unique values in a given field.

Example: db.Matter.distinct("type")

17. **db.collection.find({field: value})**

Finds documents that match the condition.

Example: db.Matter.find({type: "Frontend"})

18. **db**

Displays the current selected database name.

Example: db

19. db.collection.find().sort({field: 1/-1})

Sorts the results by a field.

Example:

db.Matter.find().sort({name: 1}) // A-Z

db.Matter.find().sort({name: -1}) // Z-A

20. db.collection.findOne()

Returns the first matching document (or first in collection if no filter).

Example: db.Matter.findOne({name: "Faiz"})

21. db.collection.find().limit(n)

Limits the number of results shown.

Example: db.Matter.find().limit(3)

22. db.collection.find().skip(n)

Skips n results — useful for pagination.

Example: db.Matter.find().skip(3).limit(3)

23. db.collection.find({field: {\$gt: value}})

Query with greater than condition (\$gt = >, \$lt = <)

Example: db.students.find({marks: {\$gt: 60}})

24. db.collection.createIndex({field: 1})

Adds an index to improve performance on queries.

Example: db.users.createIndex({name: 1})

25. db.collection.getIndexes()

Shows all indexes on a collection.

Example: db.users.getIndexes()

26. db.collection.renameCollection("newName")

Renames the collection.

Example: db.oldName.renameCollection("newName")

27.	db.stats()	
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Shows stats for the current database (size, collections, etc.)

Example: db.stats()

28. db.collection.find({field: {\$in: [val1, val2]}})

Filters data that matches any value in an array.

Example: db.users.find({type: {\$in: ["Frontend", "Backend"]}})

29. help or db.help()

Lists useful commands and help docs.

Example: db.help()

30. MongoDB Concepts Summary:

SQL Concept	MongoDB Term
Row	Document
Table	Collection
Database	Database