

MongoDB Installation and Basic Operations on Windows

1. MongoDB Installation on Windows (MSI Installer)

- Download MongoDB Community Server from <https://www.mongodb.com/try/download/community>
- Choose MSI package, select latest version, Windows platform
- Run the installer, choose 'Complete' setup
- Enable 'Install MongoDB as a Service'. Optionally install MongoDB Compass
- Finish the setup
- MongoDB Shell (mongosh) installs automatically if selected

2. Environment Variable Setup

- Go to Control Panel > System > Environment Variables

- Add path to MongoDB bin directory:

Example: C:\Program Files\MongoDB\Server\<version>\bin

3. Creating a Connection on MongoDB Compass

- Open MongoDB Compass
- Connection String: mongodb://localhost:27017
- Click 'Connect'
- After connection, click 'Create Database':

Database Name: Student_Data

Collection Name: students

- Click 'Create Database'

4. Inserting Data on MongoDB Compass

- Click on the 'students' collection

- Click 'Add Data' and 'Insert Document' and add:

```
/*
 * Paste one or more documents here
 */
{
  "_id": {
    "$oid": "687000d636254a7c5e49a268"
  },
  "name": "Rahul",
  "age": 22,
```

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```
"course": "MCA"  
}  
  
- Click 'Insert'
```

5. Using Find Command on MongoDB Compass

- Go to the collection (students) view
- Click on 'Documents' tab
- You will see all inserted data
- Alternatively, run: {} in the Find box to see all documents

6. Using Mongosh on Command Prompt

- Open Command Prompt
- Type: mongosh
- It connects to MongoDB Shell

7. Displaying Existing Databases (mongosh)

Command:

```
> show dbs
```

8. Using a Specific Database

Command:

```
> use Student_Data
```

9. Inserting Data into the Database (mongosh)

Command:

```
> db.students.insertOne({ name: "Asha", age: 23, course: "BCA" })
```

10. Displaying Data in Collection (mongosh)

Command:

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```
> db.students.find()
```