

# 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()
```