MongoDB Installation and Basic Operations on Windows

1. Create Database 'Student_Data'

Using MongoDB Compass:

- Open MongoDB Compass and connect to mongodb://localhost:27017

- Click 'Create Database'

- Enter Database Name: Student_Data

- Enter Collection Name: students

- Click 'Create Database'

Using Command Prompt (mongosh):

> mongosh

> use Student_Data

(Note: The database is created when a collection/document is added)

2. Connect to the Database

Using MongoDB Compass:

- Open Compass and connect using mongodb://localhost:27017

- Click on the 'Student_Data' database

Using Command Prompt (mongosh):

> use Student_Data

> db

(Output: Student_Data confirms connection)

3. Use the Database and Check Connectivity

Using Compass:

- After selecting the database, insert a document in 'students' collection:

```
{
  "name": "Amit",
  "age": 21,
```

   "course": "MCA"

  }

- Click 'Insert'

Using mongosh:

> use Student_Data

> db.students.insertOne({ name: "Amit", age: 21, course: "MCA" })

> db.students.find()

(Confirms connectivity and data)

4. Check Database List After Creating Document

Using Compass:

- Return to main Compass screen to see 'Student_Data' listed

Using mongosh:

> show dbs

(Student_Data will now appear because it has data)

5. Drop the Database

Using Compass:

- Select the 'Student_Data' database

- Click the trash/delete icon to drop it

Using mongosh:

> use Student_Data

> db.dropDatabase()

> show dbs

(Student_Data should no longer be listed)