Here is the full answer for the question:

Perform the MongoDB commands – Insert, Query, Update, Delete and Projection
(Using both MongoDB Compass and Command Prompt)

✅ **1. INSERT Operation**

🔷 **Using MongoDB Compass**

1. Open your database and select the **collection** (e.g., students).

2. Click on **"Insert Document"**.

3. Add the document like:

json

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```
{

  "name": "Rahul",

  "age": 22,

  "course": "MCA"

}
```

4. Click **"Insert"**.

✅ To insert multiple documents, use "Add Document" multiple times in the same insert window.

🔷 **Using Command Prompt (mongosh)**

js

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```
// Insert one document

db.students.insertOne({ name: "Rahul", age: 22, course: "MCA" })


// Insert multiple documents

db.students.insertMany([

  { name: "Asha", age: 23, course: "BCA" },

  { name: "Vikram", age: 24, course: "BSc" }

])
```

✅ 2. QUERY (FIND) Operation

◆ Using MongoDB Compass

1. Go to your collection.
2. Use the **"Filter"** bar to write a query:

json

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```json
{ "course": "MCA" }
```

3. Click **"Find"** to view results.

◆ Using Command Prompt (mongosh)

js

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```js
// Find all documents
db.students.find()


// Find documents with a condition
db.students.find({ course: "MCA" })


// Find a single document
db.students.findOne({ name: "Rahul" })
```

✅ 3. UPDATE Operation

◆ Using MongoDB Compass

1. Click the **pencil icon** next to a document.
2. Edit the field(s) you want (e.g., change "age": 22 to "age": 23).
3. Click **"Update"**.

◆ Using Command Prompt (mongosh)

js

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```js
// Update one document
```

```
db.students.updateOne(

 { name: "Rahul" },

 { $set: { age: 23 } }

)
```

```
// Update many documents

db.students.updateMany(

 { course: "BCA" },

 { $set: { duration: "3 years" } }

)
```

✅ 4. DELETE Operation

◆ **Using MongoDB Compass**

1. Click the **trash bin icon** next to the document.

2. Confirm deletion when prompted.

◆ **Using Command Prompt (mongosh)**

js

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```
// Delete one document

db.students.deleteOne({ name: "Vikram" })
```

```
// Delete multiple documents

db.students.deleteMany({ course: "BCA" })
```

✅ 5. PROJECTION (Show Specific Fields)

◆ **Using MongoDB Compass**

1. Go to the **"Project"** tab in your collection.

2. Enter fields to show or hide:

   o   Include fields:

json

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{ "name": 1, "age": 1, "_id": 0 }

        o   Exclude fields:

json

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{ "course": 0 }

   3. Click **"Apply"**.

◆ **Using Command Prompt (mongosh)**

js

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```
// Include specific fields only
db.students.find({}, { name: 1, age: 1, _id: 0 })


// Exclude a field
db.students.find({}, { course: 0 })
```