

**ADVANCED DBMS LAB****Experiment No: 8****Aim**

Create database and Practice CRUD operations

**Procedure**

**Step1:** Create data base and inert tables.

```
use my_project_db
```

```
show dbs
```

```
db.createCollection("mydb")
```

```
db.createCollection("movie")
```

```
db.movie.insert({"name": "Avengers: Endgame"})
```

```
db.movie.insert(
```

```
[
```

```
  {"name": "Avengers: Infinity War" },
```

```
  { "name": "Avengers: Endgame" }
```

```
]
```

```
)
```

```
db.developers.insertMany(
```

```
[
```

```
  { _id: 20, devname: "John Wick", tools: "Visual Studio", born: 1948 },
```

```
  { _id: 21, devname: "Ganesh Roy", tools: "Net Beans", born: 1945 },
```

```
  { _id: 22, devname: "Deeksha Raul", tools: "Unity 3D", born: 1954 }
```

```
]
```

```
)
```

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**Date:** 03-06-2022

## Output

The screenshot shows the MongoDB Compass interface. On the left, a sidebar displays the connection 'localhost:27017' and a list of collections: 'reg', 'admin', and 'config'. The main panel is titled 'Collections' and shows three collections: 'developers', 'movie', and 'mydb'. Each collection card displays its storage size, number of documents, average document size, number of indexes, and total index size.

Collection	Storage size	Documents	Avg. document size	Indexes	Total index size
developers	20.48 kB	3	78.00 B	1	20.48 kB
movie	20.48 kB	5	51.00 B	1	36.86 kB
mydb	4.10 kB	0	0 B	1	4.10 kB

### my\_project\_db.developers

The screenshot shows the 'Documents' tab for the 'my\_project\_db.developers' collection. It displays a list of three documents with their JSON structure. A filter bar at the top shows the filter '{ field: 'value' }'. Below the filter bar, there are buttons for 'ADD DATA', 'VIEW', and icons for list, JSON, and table views.

```
{ "_id": 20, "devname": "John Wick", "tools": "Visual Studio", "born": 1948 }
```

```
{ "_id": 21, "devname": "Ganesh Roy", "tools": "Net Beans", "born": 1945 }
```

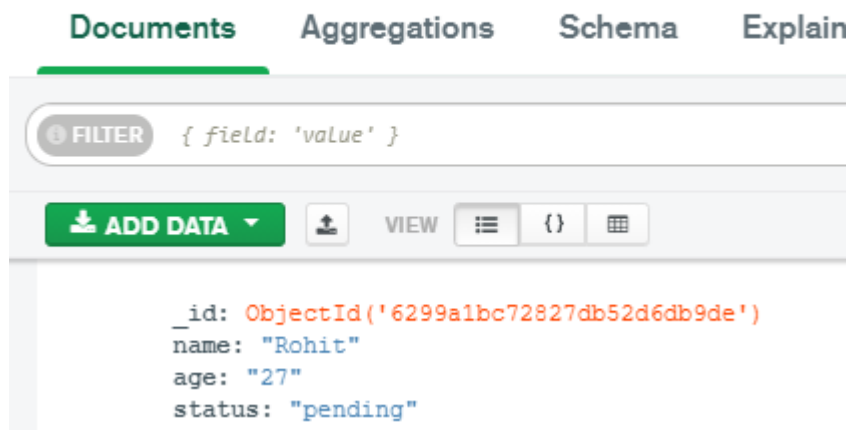
```
{ "_id": 22, "devname": "Deeksha Raul", "tools": "Unity 3D", "born": 1954 }
```

## CRUD operation

**Step 2:** Create or insert operations add new documents to a collection.

```
db.details.insertOne({name:"Rohit",age:"27",status:"pending"})
```

### my\_project\_db.details



```
db.details.insertMany([ {name:"Rohit",age:"27",status:"pending"}, {name:"Aswathy",age:22,status:"pending"}, {name:"Aswin",age:26,status:"pending"} ])
```

## Output:

```
{
  "_id": ObjectId('6299a27372827db52d6db9df'),
  "name": "Rohit",
  "age": "27",
  "status": "pending"
}
```

```
{
  "_id": ObjectId('6299a27372827db52d6db9e0'),
  "name": "Aswathy",
  "age": 22,
  "status": "pending"
}
```

```
{
  "_id": ObjectId('6299a27372827db52d6db9e1'),
  "name": "Aswin",
  "age": 26,
  "status": "pending"
}
```

**Step 3: Read operations retrieve documents from a collection**

```
db.details.find({age:{$gt:25}},{name:1,address:1}).limit(5)
```

**Output:**

```
> db.details.find({age:{$gt:25}},{name:1,address:1}).limit(5)
{ "_id" : ObjectId("6299a27372827db52d6db9e1"), "name" : "Aswin" }
>
```

**Step 4: Update operations, which modify existing documents in a collection.**

```
db.details.updateMany({age:{$gt:25}},{ $set:{status:"reject"}})
```

**Output:**

```
> db.details.updateMany({age:{$gt:25}},{ $set:{status:"reject"}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
```

```
_id: ObjectId('6299a27372827db52d6db9df')
name: "Rohit"
age: "27"
status: "pending"
```

```
_id: ObjectId('6299a27372827db52d6db9e0')
name: "Aswathy"
age: 22
status: "pending"
```

```
_id: ObjectId('6299a27372827db52d6db9e1')
name: "Aswin"
age: 26
status: "reject"
```

```
db.details.updateOne({name:"Aswathy"},{$set:{status:"selected"}})
```

**Output:**

```
db.details.updateOne({name:"Aswathy"},{$set:{status:"selected"}})
"acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
```

```
_id: ObjectId('6299a27372827db52d6db9e0')
name: "Aswathy"
age: 22
status: "selected"
```

**Step 5:** Delete operations, which remove documents from a collection.

```
db.details.deleteMany({status:"reject"})
```

**Output:**

```
> db.details.deleteMany({status:"reject"})
{ "acknowledged" : true, "deletedCount" : 1 }
```

```
_id: ObjectId('6299a27372827db52d6db9df')
name: "Rohit"
age: "27"
status: "pending"
```

```
_id: ObjectId('6299a27372827db52d6db9e0')
name: "Aswathy"
age: 22
status: "pending"
```

```
db.details.deleteOne({name:"Rohit"})
```

**Output;**

```
db.details.deleteOne({name:"Rohit"})
"acknowledged" : true, "deletedCount" : 1 }
```

```
_id: ObjectId('6299a27372827db52d6db9e0')
name: "Aswathy"
age: 22
status: "pending"
```