

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 }
]
)
```

Output

Collection Name	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

Documents Aggregations Schema Explain Plan

FILTER { field: 'value' }

ADD DATA **VIEW**

```

_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

Documents Aggregations Schema Explain

FILTER { field: 'value' }

ADD DATA **VIEW**

```

_id: ObjectId('6299a1bc72827db52d6db9de')
name: "Rohit"
age: "27"
status: "pending"

```

```
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"
```