

## CO4

1.Create a database named Employee. Create a collection named empDetails

You can use any of the fields Name, Age ,e\_mail, phone,salary

1) Insert 5 documents in it using the different insert() methods and

```
> use EMP
```

```
switched to db EMP
```

```
> db
```

```
EMP
```

```
> db.createCollection("empDetails")
```

```
{ "ok" : 1 }
```

```
> show collections
```

```
empDetails
```

```
>
```

```
db.empDetails.insert({Name:"Mohan",Age:30,Email:"mohan@gmail.com",Salary:5000})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.empDetails.insert({Name:"Raju",Age:35,Email:"raju@gmail.com",Salary:7000})
```

```
WriteResult({ "nInserted" : 1 })
```

```
>
```

```
db.empDetails.insert({Name:"Bhuvan",Age:25,Email:"bhuvan@gmail.com",Salary:10000})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.empDetails.insert({Name:"Sam",Age:27,Email:"sam@gmail.com",salary:9000})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.empDetails.insert({Name:"Nikhil",Age:28,Email:"nikhil@gmail.com",salary:15000})
WriteResult({ "nInserted" : 1 })
```

```
> db.empDetails.count()
5
```

a) Find the details of employee whose name is mohan

```
> db.empDetails.findOne({Name:"Mohan"})
{
  "_id" : ObjectId("611283a5ba6fd56e242ddb3a"),
  "Name" : "Mohan",
  "Age" : 30,
  "Email" : "mohan@gmail.com",
  "Salary" : 5000
}
```

b) Fetch the documents of employees whose salary >=5000

```
> db.empDetails.find({$and:[{salary:{$gte:5000}}]})
{ "_id" : ObjectId("613726aa40cbdb84b494e0d"), "Name" : "Mohan", "Age" : 30,
"Email" : "moham@gmail.com", "salary" : 5000 }
{ "_id" : ObjectId("613726d340cbdb84b494e0e"), "Name" : "Raju", "Age" : 35, "Email" :
"raju@gmail.com", "salary" : 7000 }
{ "_id" : ObjectId("613726fc40cbdb84b494e0f"), "Name" : "Bhuvan", "Age" : 25,
"Email" : "bhuvan@gmail.com", "salary" : 10000 }
{ "_id" : ObjectId("6137272f40cbdb84b494e10"), "Name" : "Sam", "Age" : 27, "Email" :
"sam@gmail.com", "salary" : 9000 }
```

```
{ "_id" : ObjectId("6137275040cbddb84b494e11"), "Name" : "Nikhil", "Age" : 28, "Email" : "nikhil@gmail.com", "salary" : 15000 }
```

c) Find the documents of employees whose name starts with letter r

```
> db.empDetails.find({$or:[{"Name":/^R/}]});
```

```
{ "_id" : ObjectId("613726d340cbddb84b494e0e"), "Name" : "Raju", "Age" : 35, "Email" : "raju@gmail.com", "salary" : 7000 }
```

d) Find the documents of employees whose name is not in mohan,raju,bhuvan

```
> db.empDetails.find({"Name":{"$not":{"$in":["Mohan","Raju","Bhuvan"]}}}).pretty()
```

```
{
```

```
  "_id" : ObjectId("6137272f40cbddb84b494e10"),
```

```
  "Name" : "Sam",
```

```
  "Age" : 27,
```

```
  "Email" : "sam@gmail.com",
```

```
  "salary" : 9000
```

```
}
```

```
{
```

```
  "_id" : ObjectId("6137275040cbddb84b494e11"),
```

```
  "Name" : "Nikhil",
```

```
  "Age" : 28,
```

```
  "Email" : "nikhil@gmail.com",
```

```
  "salary" : 15000
```

```
}
```

e) Find the documents of employees whose names are mohan , raju, bhuvan

```
> db.empDetails.find({"Name":{"$in":["Mohan","Raju","Bhuvan"]}}).pretty()
```

```
{
```

```
  "_id" : ObjectId("613726aa40cbddb84b494e0d"),
```

```
  "Name" : "Mohan",
```

```
  "Age" : 30,
```

```
  "Email" : "moham@gmail.com",
```

```
  "salary" : 5000
```

```
}
```

```
{
```

```
  "_id" : ObjectId("613726d340cbddb84b494e0e"),
```

```
  "Name" : "Raju",
```

```
  "Age" : 35,
```

```
  "Email" : "raju@gmail.com",
```

```
  "salary" : 7000
```

```
}
```

```
{
```

```
  "_id" : ObjectId("613726fc40cbddb84b494e0f"),
```

```
  "Name" : "Bhuvan",
```

```
  "Age" : 25,
```

```
  "Email" : "bhuvan@gmail.com",
```

```
  "salary" : 10000
```

```
}
```

f) Retrieve the details of employees whose age is less than 30. Display only the fields name, salary

```
> db.empDetails.find({Age:{<30}},{Name:1,salary:1})
```

```
{ "_id" : ObjectId("613726fc40cbddb84b494e0f"), "Name" : "Bhuvan", "salary" : 10000 }
```

```
{ "_id" : ObjectId("6137272f40cbddb84b494e10"), "Name" : "Sam", "salary" : 9000 }
```

```
{ "_id" : ObjectId("6137275040cbddb84b494e11"), "Name" : "Nikhil", "salary" : 15000 }
```

g) Find the details of employees whose salary is greater than 5000 and age is less than 30

```
> db.empDetails.find({$and:[{salary:{>5000}},{Age:{<30}}]})
```

```
{ "_id" : ObjectId("613726fc40cbddb84b494e0f"), "Name" : "Bhuvan", "Age" : 25, "Email" : "bhuvan@gmail.com", "salary" : 10000 }
```

```
{ "_id" : ObjectId("6137272f40cbddb84b494e10"), "Name" : "Sam", "Age" : 27, "Email" : "dinu@gmail.com", "salary" : 9000 }
```

```
{ "_id" : ObjectId("6137275040cbddb84b494e11"), "Name" : "Nikhil", "Age" : 28, "Email" : "anu@gmail.com", "salary" : 15000 }
```

h) Update the e-mail of employee whose name is mohan // findOneAndUpdate()

```
> db.empDetails.updateOne({Name:'Mohan'},{$set:{Email:'mohan12345@gmail.com'}})
```

```
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
```

```
>  
db.empDetails.findOneAndUpdate({Name:'Mohan'},{$set:{Email:'mohan12345@gmail.com'  
'}})
```

```
{  
  "_id" : ObjectId("613726aa40cbddb84b494e0d"),  
  "Name" : "Mohan",  
  "Age" : 30,  
  "Email" : "mohan12345@gmail.com",  
  "salary" : 5000  
}
```

i) Delete all the documents of employees whose age>56

```
> db.empDetails.find({ Age:{ $gt:56 } })
```

```
> db.empDetails.deleteMany({ Age:{ $gt:56 } })
```

```
{ "acknowledged" : true, "deletedCount" : 0 }
```