ADBMS LAB

CO4- Programs

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",Salar
y:7000})
WriteResult({ "nInserted" : 1 })
>
db.empDetails.insert({Name:"Bhuvan",Age:25,Email:"bhuvan@gmail.com"
,Salary:10000})
```

```
WriteResult({ "nInserted" : 1 })
> db.empDetails.insert({Name:"Meera",Age:27,Email:"meera@gmail.com",salary:9000})
WriteResult({ "nInserted" : 1 })
> db.empDetails.insert({Name:"Maya",Age:28,Email:"maya@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("613726aa40cbedb84b494e0d"), "Name" : "Mohan", "Age" : 30, "Email" : "moham@gmail.com", "salary" : 5000 }
```

{ "_id" : ObjectId("613726d340cbedb84b494e0e"), "Name" : "Raju", "Age" : 35, "Email" : "raju@gmail.com", "salary" : 7000 }

{ "_id" : ObjectId("613726fc40cbedb84b494e0f"), "Name" : "Bhuvan", "Age" : 25, "Email" : "bhuvan@gmail.com", "salary" : 10000 }

{ "_id" : ObjectId("6137272f40cbedb84b494e10"), "Name" : "Meera", "Age" : 27, "Email" : "meera@gmail.com", "salary" : 9000 }

{ "_id" : ObjectId("6137275040cbedb84b494e11"), "Name" : "Maya", "Age" : 28, "Email" : "maya@gmail.com", "salary" : 15000 }

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

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

{ "_id" : ObjectId("613726d340cbedb84b494e0e"), "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("6137272f40cbedb84b494e10"),
    "Name" : "Meera",
    "Age" : 27,
    "Email" : "meera@gmail.com",
    "salary" : 9000
}
```

```
{
    "_id" : ObjectId("6137275040cbedb84b494e11"),
    "Name" : "Maya",
    "Age" : 28,
    "Email" : "maya@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("613726aa40cbedb84b494e0d"),
    "Name" : "Mohan",
    "Age" : 30,
    "Email" : "moham@gmail.com",
    "salary" : 5000
}
{
    "_id" : ObjectId("613726d340cbedb84b494e0e"),
    "Name" : "Raju",
    "Age" : 35,
    "Email" : "raju@gmail.com",
    "salary" : 7000
}
```

```
{
    "_id" : ObjectId("613726fc40cbedb84b494e0f"),
    "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:{$lt:30}},{Name:1,salary:1})
```

```
{ "_id" : ObjectId("613726fc40cbedb84b494e0f"), "Name" : "Bhuvan", "salary" : 10000 }
{ "_id" : ObjectId("6137272f40cbedb84b494e10"), "Name" : "Meera", "salary" : 9000 }
{ "_id" : ObjectId("6137275040cbedb84b494e11"), "Name" : "Maya", "salary" : 15000 }
```

g) Find the details of employees whose salary is grea5000 and age is < 30

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

```
{ "_id" : ObjectId("613726fc40cbedb84b494e0f"), "Name" : "Bhuvan", "Age" : 25, "Email" : "bhuvan@gmail.com", "salary" : 10000 }
{ "_id" : ObjectId("6137272f40cbedb84b494e10"), "Name" : "Meera",
```

"Age" : 27, "Email" : "meera@gmail.com", "salary" : 9000 }

{ "_id" : ObjectId("6137275040cbedb84b494e11"), "Name" : "Maya", "Age" : 28, "Email" : "maya@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("613726aa40cbedb84b494e0d"),
    "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
```