

Name : Ayush Acharya
Class : TE 1 Q Batch
Roll No. : 35


```
test> use Empdb
switched to db Empdb
Empdb>db.createCollection("Employee")
{ ok: 1 }
Empdb>
db.Employee.insertOne({EmpID:01,Name:{FName:"Ayush",LName:"Acharya"},Company_Name:"Google Inc.",Salary:100000,Designation:"Front End Developer",age:21,Expertise:["Java","Python","C++"],DOB:"28-10-2023",Email_ID:"ayush@gmail.com",Contact:"8521430479",Address:{City:"Pune",PinCode:"411019"}})
{
  acknowledged: true,
  insertedId: ObjectId("653d2a3c1c5b1ab1c65cd5bf")
}
Empdb>
db.Employee.insertOne({EmpID:02,Name:{FName:"Kaustubh",LName:"Warade"},Company_Name:"TCS",Salary:70000,Designation:"Application Developer",age:20,Expertise:["C","Python","C++"],DOB:"09-10-2023",Email_ID:"kaust@gmail.com",Contact:"7481430479",Address:{City:"Pune",PinCode:"411038"}})
{
  acknowledged: true,
  insertedId: ObjectId("653d2aae1c5b1ab1c65cd5c0")
}
Empdb>
db.Employee.insertOne({EmpID:03,Name:{FName:"Omkar",LName:"Latpate"},Company_Name:"Wipro",Salary:80000,Designation:"Database Manager",age:30,Expertise:["MySQL","Oracle DB","MongoDB"],DOB:"12-12-2023",Email_ID:"omkar@gmail.com",Contact:"7362015488",Address:{City:"Pune",PinCode:"411001"}})
{
  acknowledged: true,
  insertedId: ObjectId("653d2b221c5b1ab1c65cd5c1")
}
Empdb>
db.Employee.insertOne({EmpID:04,Name:{FName:"Ashish",LName:"Shisal"},Company_Name:"Infosys",Salary:50000,Designation:"Software Developer",age:25,Expertise:["Python","C++"],DOB:"28-12-2023",Email_ID:"ashish@gmail.com",Contact:"8569215488",Address:{City:"Pune",PinCode:"411001"}})
{
  acknowledged: true,
  insertedId: ObjectId("653d2b861c5b1ab1c65cd5c2")
}
```

```

}
Empdb>
db.Employee.insertOne({EmpID:05,Name:{FName:"Saurabh",LName:"Butale"},Company_Name:"Bharat Infotech",Salary:80000,Designation:"Web Development",age:22,Expertise:["PHP","HTML"],DOB:"22-10-2023",Email_ID:"saurabh@gmail.com",Contact:"8888854712",Address:{City:"Pune",PinCode:"411005"}})
{
  acknowledged: true,
  insertedId: ObjectId("653d2be71c5b1ab1c65cd5c3")
}
Empdb>db.Employee.insertOne({EmpID:06,Name:{FName:"Akshay",LName:"Kelkar"},Company_Name:"SKF",Salary:100000,Designation:"Programmer",age:31,Expertise:["C#","C"],DOB:"05-01-2023",Email_ID:"akshay@gmail.com",Contact:"7774122258",Address:{City:"PCMC",PinCode:"411019"}})
{
  acknowledged: true,
  insertedId: ObjectId("653d2c8f1c5b1ab1c65cd5c4")
}
Empdb>
db.Employee.insertOne({EmpID:07,Name:{FName:"Sampada",LName:"Aghav"},Company_Name:"Infosys",Salary:80000,Designation:"Programmer",age:22,Expertise:["Python","C++","MySQL"],DOB:"20-11-2023",Email_ID:"sampada@gmail.com",Contact:"855622258",Address:{City:"PCMC",PinCode:"411019"}})
{
  acknowledged: true,
  insertedId: ObjectId("653d2f371c5b1ab1c65cd5c5")
}
Empdb>
db.Employee.insertOne({EmpID:08,Name:{FName:"Aishwarya",LName:"Acharya"},Company_Name:"Infosys",Salary:200000,Designation:"Back End Developer",Expertise:["MongoDB","MySQL","Cassandra"],DOB:"10-12-2023",Email_ID:"aish@gmail.com",Contact:"9992221111",Address:{City:"PCMC",PinCode:"411019"},age:25})
{
  acknowledged: true,
  insertedId: ObjectId("653d30201c5b1ab1c65cd5c6")
}
Empdb>
db.Employee.insertOne({EmpID:09,Name:{FName:"Apurva",LName:"Acharya"},Company_Name:"Infosys",Salary:200000,Designation:"Back End Developer",Expertise:["MongoDB","MySQL","Cassandra"],DOB:"10-01-2023",Email_ID:"ap@gmail.com",Contact:"9992224444",Address:{City:"Pune",PinCode:"411001"},age:24})
{
  acknowledged: true,
  insertedId: ObjectId("653d30781c5b1ab1c65cd5c7")
}

```

```
}
Empdb>
db.Employee.insertOne({EmpID:10,Name:{FName:"Raghav",LName:"Acharya"},Company_Name:"Infosys",Salary:200000,Designation:"Back End Developer",Expertise:["MongoDB","MySQL","Cassandra"],DOB:"10-07-2023",Email_ID:"raghav@gmail.com",Contact:"9998884444",Address:{City:"Pune",PinCode:"411001"},age:20})
}
```


Query:-

1. Select all documents where the Designation field has the value "Programmer" and the value of the salary field is greater than 30000.

Ans.

```
Empdb> db.Employee.find({Designation:"Programmer",Salary:{$gt:30000}})
```

```
[
  {
    _id: ObjectId("653d2c8f1c5b1ab1c65cd5c4"),
    EmpID: 6,
    Name: { FName: 'Akshay', LName: 'Kelkar' },
    Company_Name: 'SKF',
    Salary: 100000,
    Designation: 'Programmer',
    Expertise: [ 'C#', 'C' ],
    DOB: '05-01-2023',
    Email_ID: 'akshay@gmail.com',
    Contact: '7774122258',
    Address: { City: 'PCMC', PinCode: '411019' },
    age: 31
  },
  {
    _id: ObjectId("653d2f371c5b1ab1c65cd5c5"),
    EmpID: 7,
    Name: { FName: 'Sampada', LName: 'Aghav' },
    Company_Name: 'Infosys',
    Salary: 80000,
    Designation: 'Programmer',
    Expertise: [ 'Python', 'C++', 'MySQL' ],
    DOB: '20-11-2023',
    Email_ID: 'sampada@gmail.com',
    Contact: '855622258',
    Address: { City: 'PCMC', PinCode: '411019' },
  }
]
```

```
age: 22
}
]
```


2. Creates a new document if no document in the employee collection contains {Designation: "Tester", Company_name: "TCS", Age: 25}

```
Empdb>
db.Employee.updateOne({Designation:"Tester",Company_Name:"TCS",age:25},{
  $set:{EmpID:11,Name:"Parth
Deasi",Salary:85000,Expertise:["Python","Java"],DOB:"09-10-2023",Email_ID:"
parth@gmail.com",Contact:"8547458741",Address:{City:"Pune",PinCode:"411001"
}}},{upsert:true})
{
  acknowledged: true,
  insertedId: ObjectId("653d36a2748d2d48dc448fc0"),
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 1
}
```

```
Empdb> db.Employee.find().pretty()
[
  {
    _id: ObjectId("653d2a3c1c5b1ab1c65cd5bf"),
    EmpID: 1,
    Name: { FName: 'Ayush', LName: 'Acharya' },
    Company_Name: 'Google Inc.',
    Salary: 100000,
    Designation: 'Front End Developer',
    Expertise: [ 'Java', 'Python', 'C++' ],
    DOB: '28-10-2023',
    Email_ID: 'ayush@gmail.com',
    Contact: '8521430479',
    Address: { City: 'Pune', PinCode: '411019' },
    age: 21
  },
  {
    _id: ObjectId("653d2aae1c5b1ab1c65cd5c0"),
    EmpID: 2,
    Name: { FName: 'Kaustubh', LName: 'Warade' },
    Company_Name: 'TCS',
    Salary: 70000,
    Designation: 'Application Developer',
    Expertise: [ 'C', 'Python', 'C++' ],
    DOB: '09-10-2023',
```

```
Email_ID: 'kaust@gmail.com',
Contact: '7481430479',
Address: { City: 'Pune', PinCode: '411038' },
age: 20
},
{
  _id: ObjectId("653d2b221c5b1ab1c65cd5c1"),
  EmpID: 3,
  Name: { FName: 'Omkar', LName: 'Latpate' },
  Company_Name: 'Wipro',
  Salary: 80000,
  Designation: 'Database Manager',
  Expertise: [ 'MySQL', 'Oracle DB', 'MongoDB' ],
  DOB: '12-12-2023',
  Email_ID: 'omkar@gmail.com',
  Contact: '7362015488',
  Address: { City: 'Pune', PinCode: '411001' },
  age: 30
},
{
  _id: ObjectId("653d2b861c5b1ab1c65cd5c2"),
  EmpID: 4,
  Name: { FName: 'Ashish', LName: 'Shisal' },
  Company_Name: 'Infosys',
  Salary: 50000,
  Designation: 'Software Developer',
  Expertise: [ 'Python', 'C++' ],
  DOB: '28-12-2023',
  Email_ID: 'ashish@gmail.com',
  Contact: '8569215488',
  Address: { City: 'Pune', PinCode: '411001' },
  age: 25
},
{
  _id: ObjectId("653d2be71c5b1ab1c65cd5c3"),
  EmpID: 5,
  Name: { FName: 'Saurabh', LName: 'Butale' },
  Company_Name: 'Bharat Infotech',
  Salary: 80000,
  Designation: 'Web Development',
  Expertise: [ 'PHP', 'HTML' ],
  DOB: '22-10-2023',
  Email_ID: 'saurabh@gmail.com',
  Contact: '8888854712',
  Address: { City: 'Pune', PinCode: '411005' },
  age: 22
}
```

```
},
{
  _id: ObjectId("653d2c8f1c5b1ab1c65cd5c4"),
  EmpID: 6,
  Name: { FName: 'Akshay', LName: 'Kelkar' },
  Company_Name: 'SKF',
  Salary: 100000,
  Designation: 'Programmer',
  Expertise: [ 'C#', 'C' ],
  DOB: '05-01-2023',
  Email_ID: 'akshay@gmail.com',
  Contact: '7774122258',
  Address: { City: 'PCMC', PinCode: '411019' },
  age: 31
},
{
  _id: ObjectId("653d2f371c5b1ab1c65cd5c5"),
  EmpID: 7,
  Name: { FName: 'Sampada', LName: 'Aghav' },
  Company_Name: 'Infosys',
  Salary: 80000,
  Designation: 'Programmer',
  Expertise: [ 'Python', 'C++', 'MySQL' ],
  DOB: '20-11-2023',
  Email_ID: 'sampada@gmail.com',
  Contact: '855622258',
  Address: { City: 'PCMC', PinCode: '411019' },
  age: 22
},
{
  _id: ObjectId("653d30201c5b1ab1c65cd5c6"),
  EmpID: 8,
  Name: { FName: 'Aishwarya', LName: 'Acharya' },
  Company_Name: 'Infosys',
  Salary: 200000,
  Designation: 'Back End Developer',
  Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
  DOB: '10-12-2023',
  Email_ID: 'aish@gmail.com',
  Contact: '9992221111',
  Address: { City: 'PCMC', PinCode: '411019' },
  age: 25
},
{
  _id: ObjectId("653d30781c5b1ab1c65cd5c7"),
  EmpID: 9,
```

```

Name: { FName: 'Apurva', LName: 'Acharya' },
Company_Name: 'Infosys',
Salary: 200000,
Designation: 'Back End Developer',
Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
DOB: '10-01-2023',
Email_ID: 'ap@gmail.com',
Contact: '9992224444',
Address: { City: 'Pune', PinCode: '411001' },
age: 24
},
{
  _id: ObjectId("653d30aa1c5b1ab1c65cd5c8"),
  EmpID: 10,
  Name: { FName: 'Raghav', LName: 'Acharya' },
  Company_Name: 'Infosys',
  Salary: 200000,
  Designation: 'Back End Developer',
  Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
  DOB: '10-07-2023',
  Email_ID: 'raghav@gmail.com',
  Contact: '9998884444',
  Address: { City: 'Pune', PinCode: '411001' },
  age: 20
},
{
  _id: ObjectId("653d36a2748d2d48dc448fc0"),
  Company_Name: 'TCS',
  Designation: 'Tester',
  age: 25,
  Address: { City: 'Pune', PinCode: '411001' },
  Contact: '8547458741',
  DOB: '09-10-2023',
  Email_ID: 'parth@gmail.com',
  EmpID: 11,
  Expertise: [ 'Python', 'Java' ],
  Name: 'Parth Deasi',
  Salary: 85000
}
]

```

```

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3.Selects all documents in the collection where the field age has a value
less than 30 or the value of the salary field is greater than 40000.
Empdb> db.Employee.find({$or:[{age:{$lt:30}},{Salary:{$gt:40000}}]})

```

```
[
{
  _id: ObjectId("653d2a3c1c5b1ab1c65cd5bf"),
  EmpID: 1,
  Name: { FName: 'Ayush', LName: 'Acharya' },
  Company_Name: 'Google Inc.',
  Salary: 100000,
  Designation: 'Front End Developer',
  Expertise: [ 'Java', 'Python', 'C++' ],
  DOB: '28-10-2023',
  Email_ID: 'ayush@gmail.com',
  Contact: '8521430479',
  Address: { City: 'Pune', PinCode: '411019' },
  age: 21
},
{
  _id: ObjectId("653d2aae1c5b1ab1c65cd5c0"),
  EmpID: 2,
  Name: { FName: 'Kaustubh', LName: 'Warade' },
  Company_Name: 'TCS',
  Salary: 70000,
  Designation: 'Application Developer',
  Expertise: [ 'C', 'Python', 'C++' ],
  DOB: '09-10-2023',
  Email_ID: 'kaust@gmail.com',
  Contact: '7481430479',
  Address: { City: 'Pune', PinCode: '411038' },
  age: 20
},
{
  _id: ObjectId("653d2b221c5b1ab1c65cd5c1"),
  EmpID: 3,
  Name: { FName: 'Omkar', LName: 'Latpate' },
  Company_Name: 'Wipro',
  Salary: 80000,
  Designation: 'Database Manager',
  Expertise: [ 'MySQL', 'Oracle DB', 'MongoDB' ],
  DOB: '12-12-2023',
  Email_ID: 'omkar@gmail.com',
  Contact: '7362015488',
  Address: { City: 'Pune', PinCode: '411001' },
  age: 30
},
{
  _id: ObjectId("653d2b861c5b1ab1c65cd5c2"),
  EmpID: 4,
```



```
Name: { FName: 'Ashish', LName: 'Shisal' },
Company_Name: 'Infosys',
Salary: 50000,
Designation: 'Software Developer',
Expertise: [ 'Python', 'C++' ],
DOB: '28-12-2023',
Email_ID: 'ashish@gmail.com',
Contact: '8569215488',
Address: { City: 'Pune', PinCode: '411001' },
age: 25
},
{
  _id: ObjectId("653d2be71c5b1ab1c65cd5c3"),
  EmpID: 5,
  Name: { FName: 'Saurabh', LName: 'Butale' },
  Company_Name: 'Bharat Infotech',
  Salary: 80000,
  Designation: 'Web Development',
  Expertise: [ 'PHP', 'HTML' ],
  DOB: '22-10-2023',
  Email_ID: 'saurabh@gmail.com',
  Contact: '8888854712',
  Address: { City: 'Pune', PinCode: '411005' },
  age: 22
},
{
  _id: ObjectId("653d2c8f1c5b1ab1c65cd5c4"),
  EmpID: 6,
  Name: { FName: 'Akshay', LName: 'Kelkar' },
  Company_Name: 'SKF',
  Salary: 100000,
  Designation: 'Programmer',
  Expertise: [ 'C#', 'C' ],
  DOB: '05-01-2023',
  Email_ID: 'akshay@gmail.com',
  Contact: '7774122258',
  Address: { City: 'PCMC', PinCode: '411019' },
  age: 31
},
{
  _id: ObjectId("653d2f371c5b1ab1c65cd5c5"),
  EmpID: 7,
  Name: { FName: 'Sampada', LName: 'Aghav' },
  Company_Name: 'Infosys',
  Salary: 80000,
  Designation: 'Programmer',
```

```
Expertise: [ 'Python', 'C++', 'MySQL' ],
DOB: '20-11-2023',
Email_ID: 'sampada@gmail.com',
Contact: '855622258',
Address: { City: 'PCMC', PinCode: '411019' },
age: 22
},
{
  _id: ObjectId("653d30201c5b1ab1c65cd5c6"),
  EmpID: 8,
  Name: { FName: 'Aishwarya', LName: 'Acharya' },
  Company_Name: 'Infosys',
  Salary: 200000,
  Designation: 'Back End Developer',
  Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
  DOB: '10-12-2023',
  Email_ID: 'aish@gmail.com',
  Contact: '9992221111',
  Address: { City: 'PCMC', PinCode: '411019' },
  age: 25
},
{
  _id: ObjectId("653d30781c5b1ab1c65cd5c7"),
  EmpID: 9,
  Name: { FName: 'Apurva', LName: 'Acharya' },
  Company_Name: 'Infosys',
  Salary: 200000,
  Designation: 'Back End Developer',
  Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
  DOB: '10-01-2023',
  Email_ID: 'ap@gmail.com',
  Contact: '9992224444',
  Address: { City: 'Pune', PinCode: '411001' },
  age: 24
},
{
  _id: ObjectId("653d30aa1c5b1ab1c65cd5c8"),
  EmpID: 10,
  Name: { FName: 'Raghav', LName: 'Acharya' },
  Company_Name: 'Infosys',
  Salary: 200000,
  Designation: 'Back End Developer',
  Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
  DOB: '10-07-2023',
  Email_ID: 'raghav@gmail.com',
  Contact: '9998884444',
```

```

Address: { City: 'Pune', PinCode: '411001' },
age: 20
},
{
  _id: ObjectId("653d36a2748d2d48dc448fc0"),
  Company_Name: 'TCS',
  Designation: 'Tester',
  age: 25,
  Address: { City: 'Pune', PinCode: '411001' },
  Contact: '8547458741',
  DOB: '09-10-2023',
  Email_ID: 'parth@gmail.com',
  EmpID: 11,
  Expertise: [ 'Python', 'Java' ],
  Name: 'Parth Deasi',
  Salary: 85000
}
]

```


4. Matches all documents where the value of the field Address is an embedded document that contains only the field city with the value "Pune" and the field Pin_code with the value "411001".

Empdb> db.Employee.find({"Address.City":"Pune","Address.PinCode":"411001"})

```

[
  {
    _id: ObjectId("653d2b221c5b1ab1c65cd5c1"),
    EmpID: 3,
    Name: { FName: 'Omkar', LName: 'Latpate' },
    Company_Name: 'Wipro',
    Salary: 80000,
    Designation: 'Database Manager',
    Expertise: [ 'MySQL', 'Oracle DB', 'MongoDB' ],
    DOB: '12-12-2023',
    Email_ID: 'omkar@gmail.com',
    Contact: '7362015488',
    Address: { City: 'Pune', PinCode: '411001' },
    age: 30
  },
  {
    _id: ObjectId("653d2b861c5b1ab1c65cd5c2"),
    EmpID: 4,
    Name: { FName: 'Ashish', LName: 'Shisal' },
    Company_Name: 'Infosys',
    Salary: 50000,

```

```
Designation: 'Software Developer',
Expertise: [ 'Python', 'C++' ],
DOB: '28-12-2023',
Email_ID: 'ashish@gmail.com',
Contact: '8569215488',
Address: { City: 'Pune', PinCode: '411001' },
age: 25
},
{
  _id: ObjectId("653d30781c5b1ab1c65cd5c7"),
  EmpID: 9,
  Name: { FName: 'Apurva', LName: 'Acharya' },
  Company_Name: 'Infosys',
  Salary: 200000,
  Designation: 'Back End Developer',
  Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
  DOB: '10-01-2023',
  Email_ID: 'ap@gmail.com',
  Contact: '9992224444',
  Address: { City: 'Pune', PinCode: '411001' },
  age: 24
},
{
  _id: ObjectId("653d30aa1c5b1ab1c65cd5c8"),
  EmpID: 10,
  Name: { FName: 'Raghav', LName: 'Acharya' },
  Company_Name: 'Infosys',
  Salary: 200000,
  Designation: 'Back End Developer',
  Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
  DOB: '10-07-2023',
  Email_ID: 'raghav@gmail.com',
  Contact: '9998884444',
  Address: { City: 'Pune', PinCode: '411001' },
  age: 20
},
{
  _id: ObjectId("653d36a2748d2d48dc448fc0"),
  Company_Name: 'TCS',
  Designation: 'Tester',
  age: 25,
  Address: { City: 'Pune', PinCode: '411001' },
  Contact: '8547458741',
  DOB: '09-10-2023',
  Email_ID: 'parth@gmail.com',
  EmpID: 11,
```

```
Expertise: [ 'Python', 'Java' ],
Name: 'Parth Deasi',
Salary: 85000
}
]
```


5. Finds all documents with Company_name: "TCS" and modifies their salary field by 2000.

```
Empdb> db.Employee.updateMany(
... { Company_Name: "TCS" },
... { $inc: { Salary: 2000 } }
... )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 2,
  modifiedCount: 2,
  upsertedCount: 0
}
Empdb> db.Employee.find().pretty()
[
  {
    _id: ObjectId("653d2a3c1c5b1ab1c65cd5bf"),
    EmpID: 1,
    Name: { FName: 'Ayush', LName: 'Acharya' },
    Company_Name: 'Google Inc.',
    Salary: 100000,
    Designation: 'Front End Developer',
    Expertise: [ 'Java', 'Python', 'C++' ],
    DOB: '28-10-2023',
    Email_ID: 'ayush@gmail.com',
    Contact: '8521430479',
    Address: { City: 'Pune', PinCode: '411019' },
    age: 21
  },
  {
    _id: ObjectId("653d2aae1c5b1ab1c65cd5c0"),
    EmpID: 2,
    Name: { FName: 'Kaustubh', LName: 'Warade' },
    Company_Name: 'TCS',
    Salary: 72000,
    Designation: 'Application Developer',
    Expertise: [ 'C', 'Python', 'C++' ],
    DOB: '09-10-2023',
```

```
Email_ID: 'kaust@gmail.com',
Contact: '7481430479',
Address: { City: 'Pune', PinCode: '411038' },
age: 20
},
{
  _id: ObjectId("653d2b221c5b1ab1c65cd5c1"),
  EmpID: 3,
  Name: { FName: 'Omkar', LName: 'Latpate' },
  Company_Name: 'Wipro',
  Salary: 80000,
  Designation: 'Database Manager',
  Expertise: [ 'MySQL', 'Oracle DB', 'MongoDB' ],
  DOB: '12-12-2023',
  Email_ID: 'omkar@gmail.com',
  Contact: '7362015488',
  Address: { City: 'Pune', PinCode: '411001' },
  age: 30
},
{
  _id: ObjectId("653d2b861c5b1ab1c65cd5c2"),
  EmpID: 4,
  Name: { FName: 'Ashish', LName: 'Shisal' },
  Company_Name: 'Infosys',
  Salary: 50000,
  Designation: 'Software Developer',
  Expertise: [ 'Python', 'C++' ],
  DOB: '28-12-2023',
  Email_ID: 'ashish@gmail.com',
  Contact: '8569215488',
  Address: { City: 'Pune', PinCode: '411001' },
  age: 25
},
{
  _id: ObjectId("653d2be71c5b1ab1c65cd5c3"),
  EmpID: 5,
  Name: { FName: 'Saurabh', LName: 'Butale' },
  Company_Name: 'Bharat Infotech',
  Salary: 80000,
  Designation: 'Web Development',
  Expertise: [ 'PHP', 'HTML' ],
  DOB: '22-10-2023',
  Email_ID: 'saurabh@gmail.com',
  Contact: '8888854712',
  Address: { City: 'Pune', PinCode: '411005' },
  age: 22
}
```

```
},
{
  _id: ObjectId("653d2c8f1c5b1ab1c65cd5c4"),
  EmpID: 6,
  Name: { FName: 'Akshay', LName: 'Kelkar' },
  Company_Name: 'SKF',
  Salary: 100000,
  Designation: 'Programmer',
  Expertise: [ 'C#', 'C' ],
  DOB: '05-01-2023',
  Email_ID: 'akshay@gmail.com',
  Contact: '7774122258',
  Address: { City: 'PCMC', PinCode: '411019' },
  age: 31
},
{
  _id: ObjectId("653d2f371c5b1ab1c65cd5c5"),
  EmpID: 7,
  Name: { FName: 'Sampada', LName: 'Aghav' },
  Company_Name: 'Infosys',
  Salary: 80000,
  Designation: 'Programmer',
  Expertise: [ 'Python', 'C++', 'MySQL' ],
  DOB: '20-11-2023',
  Email_ID: 'sampada@gmail.com',
  Contact: '855622258',
  Address: { City: 'PCMC', PinCode: '411019' },
  age: 22
},
{
  _id: ObjectId("653d30201c5b1ab1c65cd5c6"),
  EmpID: 8,
  Name: { FName: 'Aishwarya', LName: 'Acharya' },
  Company_Name: 'Infosys',
  Salary: 200000,
  Designation: 'Back End Developer',
  Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
  DOB: '10-12-2023',
  Email_ID: 'aish@gmail.com',
  Contact: '9992221111',
  Address: { City: 'PCMC', PinCode: '411019' },
  age: 25
},
{
  _id: ObjectId("653d30781c5b1ab1c65cd5c7"),
  EmpID: 9,
```

```

Name: { FName: 'Apurva', LName: 'Acharya' },
Company_Name: 'Infosys',
Salary: 200000,
Designation: 'Back End Developer',
Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
DOB: '10-01-2023',
Email_ID: 'ap@gmail.com',
Contact: '9992224444',
Address: { City: 'Pune', PinCode: '411001' },
age: 24
},
{
  _id: ObjectId("653d30aa1c5b1ab1c65cd5c8"),
  EmpID: 10,
  Name: { FName: 'Raghav', LName: 'Acharya' },
  Company_Name: 'Infosys',
  Salary: 200000,
  Designation: 'Back End Developer',
  Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
  DOB: '10-07-2023',
  Email_ID: 'raghav@gmail.com',
  Contact: '9998884444',
  Address: { City: 'Pune', PinCode: '411001' },
  age: 20
},
{
  _id: ObjectId("653d36a2748d2d48dc448fc0"),
  Company_Name: 'TCS',
  Designation: 'Tester',
  age: 25,
  Address: { City: 'Pune', PinCode: '411001' },
  Contact: '8547458741',
  DOB: '09-10-2023',
  Email_ID: 'parth@gmail.com',
  EmpID: 11,
  Expertise: [ 'Python', 'Java' ],
  Name: 'Parth Deasi',
  Salary: 87000
}
]

```


 6. Find documents where Designation is not equal to "Developer"

Empdb> db.Employee.find({Designation:{\$ne : "Developer"}})

[


```
{
  _id: ObjectId("653d2a3c1c5b1ab1c65cd5bf"),
  EmpID: 1,
  Name: { FName: 'Ayush', LName: 'Acharya' },
  Company_Name: 'Google Inc.',
  Salary: 100000,
  Designation: 'Front End Developer',
  Expertise: [ 'Java', 'Python', 'C++' ],
  DOB: '28-10-2023',
  Email_ID: 'ayush@gmail.com',
  Contact: '8521430479',
  Address: { City: 'Pune', PinCode: '411019' },
  age: 21
},
{
  _id: ObjectId("653d2aae1c5b1ab1c65cd5c0"),
  EmpID: 2,
  Name: { FName: 'Kaustubh', LName: 'Warade' },
  Company_Name: 'TCS',
  Salary: 72000,
  Designation: 'Application Developer',
  Expertise: [ 'C', 'Python', 'C++' ],
  DOB: '09-10-2023',
  Email_ID: 'kaust@gmail.com',
  Contact: '7481430479',
  Address: { City: 'Pune', PinCode: '411038' },
  age: 20
},
{
  _id: ObjectId("653d2b221c5b1ab1c65cd5c1"),
  EmpID: 3,
  Name: { FName: 'Omkar', LName: 'Latpate' },
  Company_Name: 'Wipro',
  Salary: 80000,
  Designation: 'Database Manager',
  Expertise: [ 'MySQL', 'Oracle DB', 'MongoDB' ],
  DOB: '12-12-2023',
  Email_ID: 'omkar@gmail.com',
  Contact: '7362015488',
  Address: { City: 'Pune', PinCode: '411001' },
  age: 30
},
{
  _id: ObjectId("653d2b861c5b1ab1c65cd5c2"),
  EmpID: 4,
  Name: { FName: 'Ashish', LName: 'Shisal' },
```

```
Company_Name: 'Infosys',
Salary: 50000,
Designation: 'Software Developer',
Expertise: [ 'Python', 'C++' ],
DOB: '28-12-2023',
Email_ID: 'ashish@gmail.com',
Contact: '8569215488',
Address: { City: 'Pune', PinCode: '411001' },
age: 25
},
{
  _id: ObjectId("653d2be71c5b1ab1c65cd5c3"),
  EmpID: 5,
  Name: { FName: 'Saurabh', LName: 'Butale' },
  Company_Name: 'Bharat Infotech',
  Salary: 80000,
  Designation: 'Web Development',
  Expertise: [ 'PHP', 'HTML' ],
  DOB: '22-10-2023',
  Email_ID: 'saurabh@gmail.com',
  Contact: '8888854712',
  Address: { City: 'Pune', PinCode: '411005' },
  age: 22
},
{
  _id: ObjectId("653d2c8f1c5b1ab1c65cd5c4"),
  EmpID: 6,
  Name: { FName: 'Akshay', LName: 'Kelkar' },
  Company_Name: 'SKF',
  Salary: 100000,
  Designation: 'Programmer',
  Expertise: [ 'C#', 'C' ],
  DOB: '05-01-2023',
  Email_ID: 'akshay@gmail.com',
  Contact: '7774122258',
  Address: { City: 'PCMC', PinCode: '411019' },
  age: 31
},
{
  _id: ObjectId("653d2f371c5b1ab1c65cd5c5"),
  EmpID: 7,
  Name: { FName: 'Sampada', LName: 'Aghav' },
  Company_Name: 'Infosys',
  Salary: 80000,
  Designation: 'Programmer',
  Expertise: [ 'Python', 'C++', 'MySQL' ],
```

```
DOB: '20-11-2023',
Email_ID: 'sampada@gmail.com',
Contact: '855622258',
Address: { City: 'PCMC', PinCode: '411019' },
age: 22
},
{
  _id: ObjectId("653d30201c5b1ab1c65cd5c6"),
  EmpID: 8,
  Name: { FName: 'Aishwarya', LName: 'Acharya' },
  Company_Name: 'Infosys',
  Salary: 200000,
  Designation: 'Back End Developer',
  Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
  DOB: '10-12-2023',
  Email_ID: 'aish@gmail.com',
  Contact: '9992221111',
  Address: { City: 'PCMC', PinCode: '411019' },
  age: 25
},
{
  _id: ObjectId("653d30781c5b1ab1c65cd5c7"),
  EmpID: 9,
  Name: { FName: 'Apurva', LName: 'Acharya' },
  Company_Name: 'Infosys',
  Salary: 200000,
  Designation: 'Back End Developer',
  Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
  DOB: '10-01-2023',
  Email_ID: 'ap@gmail.com',
  Contact: '9992224444',
  Address: { City: 'Pune', PinCode: '411001' },
  age: 24
},
{
  _id: ObjectId("653d30aa1c5b1ab1c65cd5c8"),
  EmpID: 10,
  Name: { FName: 'Raghav', LName: 'Acharya' },
  Company_Name: 'Infosys',
  Salary: 200000,
  Designation: 'Back End Developer',
  Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
  DOB: '10-07-2023',
  Email_ID: 'raghav@gmail.com',
  Contact: '9998884444',
  Address: { City: 'Pune', PinCode: '411001' },
```

```

age: 20
},
{
  _id: ObjectId("653d36a2748d2d48dc448fc0"),
  Company_Name: 'TCS',
  Designation: 'Tester',
  age: 25,
  Address: { City: 'Pune', PinCode: '411001' },
  Contact: '8547458741',
  DOB: '09-10-2023',
  Email_ID: 'parth@gmail.com',
  EmpID: 11,
  Expertise: [ 'Python', 'Java' ],
  Name: 'Parth Deasi',
  Salary: 87000
}
]

```

7. Find _id, Designation, Address and Name from all documents where Company_name is "Infosys".

Empdb>

```

db.Employee.find({Company_Name:"Infosys"},{_id:1,Designation:1,Address:1,Name:1})

```

```

[
  {
    _id: ObjectId("653d2b861c5b1ab1c65cd5c2"),
    Name: { FName: 'Ashish', LName: 'Shisal' },
    Designation: 'Software Developer',
    Address: { City: 'Pune', PinCode: '411001' }
  },
  {
    _id: ObjectId("653d2f371c5b1ab1c65cd5c5"),
    Name: { FName: 'Sampada', LName: 'Aghav' },
    Designation: 'Programmer',
    Address: { City: 'PCMC', PinCode: '411019' }
  },
  {
    _id: ObjectId("653d30201c5b1ab1c65cd5c6"),
    Name: { FName: 'Aishwarya', LName: 'Acharya' },
    Designation: 'Back End Developer',
    Address: { City: 'PCMC', PinCode: '411019' }
  },
  {
    _id: ObjectId("653d30781c5b1ab1c65cd5c7"),

```

```

Name: { FName: 'Apurva', LName: 'Acharya' },
Designation: 'Back End Developer',
Address: { City: 'Pune', PinCode: '411001' }
},
{
  _id: ObjectId("653d30aa1c5b1ab1c65cd5c8"),
  Name: { FName: 'Raghav', LName: 'Acharya' },
  Designation: 'Back End Developer',
  Address: { City: 'Pune', PinCode: '411001' }
}
]

```

8. Selects all documents in the employee collection where the value of the Designation is either "Developer" or "Tester".

```
Empdb> db.Employee.find({Designation:{$in:["Developer","Tester"]}})
```

```

[
  {
    _id: ObjectId("653d36a2748d2d48dc448fc0"),
    Company_Name: 'TCS',
    Designation: 'Tester',
    age: 25,
    Address: { City: 'Pune', PinCode: '411001' },
    Contact: '8547458741',
    DOB: '09-10-2023',
    Email_ID: 'parth@gmail.com',
    EmpID: 11,
    Expertise: [ 'Python', 'Java' ],
    Name: 'Parth Deasi',
    Salary: 87000
  }
]

```

9. . Find all document with Exact Match on an Array having Expertise:

```
['Mongodb','Mysql', 'Cassandra']
```

```
Empdb> db.Employee.find({Expertise :{$eq:
```

```
["MongoDB","MySQL","Cassandra"]}})
```

```

[
  {
    _id: ObjectId("653d30201c5b1ab1c65cd5c6"),
    EmpID: 8,
    Name: { FName: 'Aishwarya', LName: 'Acharya' },
    Company_Name: 'Infosys',

```

```

Salary: 200000,
Designation: 'Back End Developer',
Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
DOB: '10-12-2023',
Email_ID: 'aish@gmail.com',
Contact: '9992221111',
Address: { City: 'PCMC', PinCode: '411019' },
age: 25
},
{
  _id: ObjectId("653d30781c5b1ab1c65cd5c7"),
  EmpID: 9,
  Name: { FName: 'Apurva', LName: 'Acharya' },
  Company_Name: 'Infosys',
  Salary: 200000,
  Designation: 'Back End Developer',
  Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
  DOB: '10-01-2023',
  Email_ID: 'ap@gmail.com',
  Contact: '9992224444',
  Address: { City: 'Pune', PinCode: '411001' },
  age: 24
},
{
  _id: ObjectId("653d30aa1c5b1ab1c65cd5c8"),
  EmpID: 10,
  Name: { FName: 'Raghav', LName: 'Acharya' },
  Company_Name: 'Infosys',
  Salary: 200000,
  Designation: 'Back End Developer',
  Expertise: [ 'MongoDB', 'MySQL', 'Cassandra' ],
  DOB: '10-07-2023',
  Email_ID: 'raghav@gmail.com',
  Contact: '9998884444',
  Address: { City: 'Pune', PinCode: '411001' },
  age: 20
}
]

```

```

-----
-----
-----
10.Drop Single documents where designation="Developer"
Empdb> db.Employee.remove({Designation:"Developer"})
{ acknowledged: true, deletedCount: 0 }
-----
-----

```

