Mongodb-2 Design and Develop MongoDB Queries using CRUD operations: Create Employee collection by considering following Fields: i. Name: Embedded Doc (FName, LName) ii. Company Name: String iii. Salary: Number iv. Designation: String v. Age: Number vi. Expertise: Array vii. DOB: String or Date viii. Email id: String ix. Contact: String x. Address: Array of Embedded Doc (PAddr, LAddr) Insert at least 5 documents in collection by considering above attribute and execute following queries:

1. 1. Final name of Employee where age is less than 30 and salary more than 50000.

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

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.

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

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

6. Display only FName and LName of all Employees

```
use companyDB

db.employee.insertMany([
  {
    Name: { FName: "Amit", LName: "Sharma" },
    Company_name: "Infosys",
    Salary: 45000,
    Designation: "Programmer",
    Age: 28,
    Expertise: ["MongoDB", "NodeJS", "Express"],
    DOB: ISODate("1997-05-12"),
    Email: "amit.sharma@infosys.com",
    Contact: "9876543210",
    Address: [
      { PAddr: "Pune, Maharashtra" },
      { LAddr: "Bangalore, Karnataka" }
    ]
  },
  {
    Name: { FName: "Sneha", LName: "Patil" },
    Company_name: "TCS",
    Salary: 32000,
    Designation: "Tester",
    Age: 25,
    Expertise: ["Java", "Selenium", "MySQL"],
    DOB: ISODate("1999-04-18"),
    Email: "sneha.patil@tcs.com",
    Contact: "9123456789",
    Address: [
      { PAddr: "Mumbai, Maharashtra" },
      { LAddr: "Chennai, Tamil Nadu" }
    ]
  },
  {
    Name: { FName: "Rahul", LName: "Deshmukh" },
    Company_name: "TCS",
    Salary: 40000,
    Designation: "Programmer",
    Age: 30,
    Expertise: ["Python", "MongoDB", "MySQL"],
    DOB: ISODate("1995-01-15"),
    Email: "rahul.deshmukh@tcs.com",
    Contact: "9988776655",
    Address: [
      { PAddr: "Nagpur, Maharashtra" },
      { LAddr: "Hyderabad, Telangana" }
    ]
  },
  {
    Name: { FName: "Priya", LName: "Nair" },
    Company_name: "Wipro",
    Salary: 28000,
    Designation: "Designer",
    Age: 26,
    Expertise: ["UI/UX", "Figma", "Photoshop"],
    DOB: ISODate("1998-07-20"),
    Email: "priya.nair@wipro.com",
    Contact: "9090909090",
    Address: [
      { PAddr: "Kochi, Kerala" },
      { LAddr: "Bangalore, Karnataka" }
    ]
  },
  {
    Name: { FName: "Vikas", LName: "Joshi" },
    Company_name: "Infosys",
    Salary: 60000,
    Designation: "Team Lead",
    Age: 35,
    Expertise: ["MongoDB", "MySQL", "Cassandra"],
    DOB: ISODate("1989-09-10"),
    Email: "vikas.joshi@infosys.com",
    Contact: "9876001234",
    Address: [
      { PAddr: "Pune, Maharashtra" },
      { LAddr: "Pune, Maharashtra" }
    ]
  }
]);
```

Step 7: Test the Queries

Query 1 – Final Name of Employees where Age < 30 and Salary > 50000

```
db.employee.find(
  { Age: { $lt: 30 }, Salary: { $gt: 50000 } },
  { "Name.FName": 1, "Name.LName": 1, _id: 0 }
);
```

Query 2 – Insert new document if not exists

If no document exists with {Designation: "Tester", Company_name: "TCS", Age: 25}, create one.

```
db.employee.updateOne(
  { Designation: "Tester", Company_name: "TCS", Age: 25 },
  {
    $setOnInsert: {
      Name: { FName: "Kiran", LName: "Verma" },
      Salary: 30000,
      Expertise: ["Java", "Selenium"],
      DOB: ISODate("1999-08-10"),
      Email: "kiran.verma@tcs.com",
      Contact: "9012345678",
      Address: [
        { PAddr: "Delhi" },
        { LAddr: "Gurgaon" }
      ]
    }
  },
  { upsert: true }
);
```

Query 3 – Select all where Age < 30 OR Salary > 40000

```
db.employee.find(
  { $or: [ { Age: { $lt: 30 } }, { Salary: { $gt: 40000 } } ] }
);
```

Query 4 – Find documents where Designation ≠ "Developer"

```
db.employee.find({ Designation: { $ne: "Developer" } });
```

Query 5 – Find _id, Designation, Address, Name for employees where Company_name = "Infosys"

```
db.employee.find(
  { Company_name: "Infosys" },
  { _id: 1, Designation: 1, Address: 1, Name: 1 }
);
```

Query 6-Display only FName and LName of all Employees

```
db.employee.find(
  {},
  { "Name.FName": 1, "Name.LName": 1, _id: 0 }
);
```