MongoDB Lab Programs.

Create an employee database with the fields: {eid, ename, dept, design,

salary, yoj, address{dno,street, locality, city}}

Create 10 documents with data relevant to the following questions.

1. Display all the employees with salary in range (50000, 75000)

2. Display all the employees with design developer

3. Add field age to employee "Rahul"

4. Remove YOJ from "Rahul"

5. Remove p3 from "Rahul"

6. Add a new embedded object "contacts" with "email" and "phone" as

array objects to "Rahul

7. Add two phone numbers to "Rahul"

Insertion of Data Documents for the Employee Collection

```
db.employees.insertMany([
    {
        eid: "e1",
        ename: "Rahul",
        dept: "Development",
        design: "Developer",
        salary: 60000,
        yoj: 2015,
        address: {
            dno: "101",
            street: "MG Road",
            locality: "Downtown",
            city: "Mumbai"
        }
    },
    {
        eid: "e2",
        ename: "Anjali",
        dept: "Development",
        design: "Developer",
```

```
        salary: 75000,

        yoj: 2018,

        address: {

            dno: "102",

            street: "Baker Street",

            locality: "West End",

            city: "London"

        }

    },

    {

        eid: "e3",

        ename: "Vikas",

        dept: "Marketing",

        design: "Manager",

        salary: 72000,

        yoj: 2016,

        address: {

            dno: "202",

            street: "Highway 66",

            locality: "Suburbs",

            city: "Chicago"

        }
```

```
    },
    {
        eid: "e4",
        ename: "Priya",
        dept: "Sales",
        design: "Executive",
        salary: 50000,
        yoj: 2017,
        address: {
            dno: "203",
            street: "Oak Lane",
            locality: "Green Valley",
            city: "Delhi"
        }
    },
    {
        eid: "e5",
        ename: "Kiran",
        dept: "Development",
        design: "Developer",
        salary: 60000,
        yoj: 2019,
```

```
    address: {
        dno: "204",
        street: "Main Street",
        locality: "City Center",
        city: "Bangalore"
    }
},
{
    eid: "e6",
    ename: "Sanya",
    dept: "HR",
    design: "HR Executive",
    salary: 55000,
    yoj: 2014,
    address: {
        dno: "205",
        street: "Seaview Road",
        locality: "Beach Town",
        city: "Goa"
    }
},
{
```

```
        eid: "e7",

        ename: "Manoj",

        dept: "Finance",

        design: "Analyst",

        salary: 65000,

        yoj: 2018,

        address: {

            dno: "206",

            street: "Kingfisher Ave",

            locality: "Downtown",

            city: "Chennai"

        }

    },

    {

        eid: "e8",

        ename: "Nisha",

        dept: "Sales",

        design: "Executive",

        salary: 52000,

        yoj: 2020,

        address: {

            dno: "207",
```

```
        street: "Lakeside Street",

        locality: "North End",

        city: "Pune"

    }

},

{

    eid: "e9",

    ename: "Rajesh",

    dept: "Marketing",

    design: "Manager",

    salary: 70000,

    yoj: 2016,

    address: {

        dno: "208",

        street: "Sunset Boulevard",

        locality: "Downtown",

        city: "Hyderabad"

    }

},

{

    eid: "e10",

    ename: "Suresh",
```

```
        dept: "Development",

        design: "Developer",

        salary: 75000,

        yoj: 2017,

        address: {

            dno: "209",

            street: "Park Lane",

            locality: "City Square",

            city: "Kolkata"

        }

    }

]);
```

QUERIES :

1. **Display all the employees with salary in range (50000, 75000)**

   db.employees.find({ salary: { $gt: 50000, $lt: 75000 } });

2. **Display all the employees with design developer**

   db.employees.find({ design: "Developer" });

3. **Add field age to employee "Rahul"**

   ```
   db.employees.updateOne(
      { ename: "Rahul" },
      { $set: { age: 30 } }
   );
   ```

4. **Remove YOJ from "Rahul"**

   ```
   db.employees.updateOne(
      { ename: "Rahul" },
      { $unset: { yoj: "" } }
   );
   ```

5. Remove p3 from "Rahul"

```
db.employees.updateOne(
    { ename: "Rahul" },
    { $unset: { address: "" } }
);
```

6. Add a new embedded object "contacts" with "email" and "phone" as
array objects to "Rahul".

```
db.employees.updateOne(
    { ename: "Rahul" },
    {
        $set: {
            contacts: {
                email: ["rahul@example.com"],
                phone: ["1234567890"]
            }
        }
    }
);
```

7. Add two phone numbers to "Rahul"

```
db.employees.updateOne(

   { ename: "Rahul" },

   {

     $push: {

        "contacts.phone": { $each: ["9876543210", "1122334455"] }

     }

   }
);
```