

2. Create another collection emp\_professional\_details with emp\_id, emp\_name, designation, salary, incentive, working hours

→

use employee

```
db.createCollection("emp_professional_details")
```

```
db.emp_professional_details.insertOne({
  emp_id: 101,
  emp_name: "Amit Kumar",
  designation: "Software Engineer",
  salary: 45000,
  incentive: 5000,
  working_hours: 8
})
```

```
db.emp_professional_details.find().pretty()
```

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1. Insert 10 records in collection emp\_professional\_details

```
db.emp_professional_details.insertMany([
  { emp_id: 102, emp_name: "Rahul Sharma", designation: "Clerk", salary: 4000, incentive: 500,
    working_hours: 8 },
  { emp_id: 103, emp_name: "Priya Mehta", designation: "Manager", salary: 6000, incentive: 1200,
    working_hours: 8 },
  { emp_id: 104, emp_name: "Neha Singh", designation: "HR", salary: 5000, incentive: 800,
    working_hours: 8 },
  { emp_id: 105, emp_name: "Ravi Kumar", designation: "Accountant", salary: 4800, incentive: 700,
    working_hours: 8 },
  { emp_id: 106, emp_name: "Sneha Roy", designation: "Manager", salary: 6000, incentive: 1300,
    working_hours: 8 },
  { emp_id: 107, emp_name: "Arjun Verma", designation: "Salesman", salary: 4500, incentive: 600,
    working_hours: 8 },
  { emp_id: 108, emp_name: "Sana Shaikh", designation: "Manager", salary: 6200, incentive: 1400,
    working_hours: 8 },
  { emp_id: 109, emp_name: "Varun Patel", designation: "Developer", salary: 6000, incentive: 1100,
    working_hours: 8 },
  { emp_id: 110, emp_name: "Anjali Gupta", designation: "Manager", salary: 6000, incentive: 1000,
    working_hours: 8 },
  { emp_id: 111, emp_name: "Deepak Yadav", designation: "Intern", salary: 3000, incentive: 200,
    working_hours: 6 }
])
```

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2. Show all the employees having designation manager

```
db.emp_professional_details.find({ designation: "Manager" }).pretty()
```

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3 Show all the employees having salary 6000

```
db.emp_professional_details.find({ salary: 6000 }).pretty()
```

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4.2. Update collection emp\_professional\_details, give incentive 5000 to employees whose working hours is greater than 45 per week.

```
db.emp_professional_details.updateMany( { working_hours: { $gt: 6 } }, { $set: { incentive: 5000 } } )
```

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4.3 Add 1000 to salary employee whose designation is accountant.

```
employee> db.emp_professional_details.updateMany( { designation: "Clerk" }, { $inc: { salary: 1000 } } )
```

---

5 Create multiple index on emp\_id, emp\_name in collection emp\_professional\_details

```
db.emp_professional_details.createIndex({ emp_id: 1, emp_name: 1 })
```

---

6.A Find sum of salaries of employee having designation Clerk.

```
db.emp_professional_details.aggregate([  
  { $match: { designation: "Clerk" } },  
  { $group: { _id: null, totalSalary: { $sum: "$salary" } } }  
])
```

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6.B Filter the employees having designation software engineer and find the minimum salary.

```
db.emp_professional_details.aggregate([  
  { $match: { designation: "Software Engineer" } },
```

```
{ $group: { _id: null, minSalary: { $min: "$salary" } } }  
])
```

---

7.A Use unwind command and show the employees whose mobile number is sorted in array.

Insert more data only for unwind command:

```
db.emp_professional_details.insertMany([  
  {  
    emp_id: 112,  
    emp_name: "Rohit Joshi",  
    designation: "HR",  
    salary: 5500,  
    incentive: 600,  
    working_hours: 8,  
    emp_mobilenumber: ["9990001111", "8881112222"]  
  },  
  {  
    emp_id: 113,  
    emp_name: "Meera Nair",  
    designation: "Manager",  
    salary: 7000,  
    incentive: 900,  
    working_hours: 9,  
    emp_mobilenumber: ["7772223333"]  
  },  
  {  
    emp_id: 114,  
    emp_name: "Aditya Rao",  
    designation: "Software Engineer",  
    salary: 48000,  
    incentive: 3000,
```

```
    working_hours: 8,  
    emp_mobilenumber: ["8888888888", "9999999999", "7777777777"]  
  },  
])
```

Now run this command:

```
db.emp_professional_details.aggregate([  
  { $unwind: "$emp_mobilenumber" },  
  { $sort: { emp_mobilenumber: 1 } }  
])
```

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