# 1. Creating Databse for employee Create Collection emp_personal_details with emp_id,emp_name,emp_address,emp_DOB,emp_age,emp_mobileNo

## db.createCollection("emp_personal_details");

db.emp_personal_details.insertOne({emp_name:"Shivani",emp_age:23,emp_salary: 30000,emp_designation:"CEO",emp_mobile:7889432122});

**Output:**

**db.emp_personal_details.find();**

```
}
{
  _id: ObjectId('6870dd488529fee3e0748a5f'),
  emp_name: 'Shivani',
  emp_age: 23,
  emp_salary: 30000,
  emp_designation: 'CEO',
  emp_mobile: 7889432122
}
```

**2. Create Another Collection emp_professional_details  emp_id,emp_name, emp_designation, emp_salary, emp_incentive, working_hours**

## <u>employee> db.createCollection("emp_professional_details");</u>

employee> db.emp_professional_details.insertMany({ emp_id:101,

... emp_name:"Bhavana",

...    emp_designation: 'manager',

...    emp_salary: 90000,

... emp_incentive:5000,

... working_hours:8 });

**<u>Output:</u>**

**<u>employee>  db.emp_professional_details.find();</u>**

```
{
  _id: ObjectId('686f7df6a2a8f0590a748a5f'),
  emp_id: 101,
  emp_name: 'Bhavana',
  emp_designation: 'manager',
  emp_salary: 90000,
  emp_incentive: 5000,
  working_hours: 8
},
{
```

**3.insert 10 records in Collection emp_personal_details and and emp_professional_details.**

**3.1) db.createCollection("emp_personal_details");**

db.emp_personal_details.insertMany([{emp_name:"Shivani",emp_age:23,emp_salary:30000,emp_designation:"CEO",emp_mobile:7889432122},

...
{emp_name:"Kiran",emp_age:20,emp_salary:40000,emp_designation:"manager",emp_mobile:7857832122},

...
{emp_name:"Neha",emp_age:28,emp_salary:10000,emp_designation:"Professior",emp_mobile:7846432122},

...
{emp_name:"Punam",emp_age:22,emp_salary:20000,emp_designation:"C.A",emp_mobile:9856432122},

...
{emp_name:"Krisha",emp_age:29,emp_salary:60000,emp_designation:"manager",emp_mobile:4856432122},

...
{emp_name:"Viraj",emp_age:20,emp_salary:50000,emp_designation:"HR",emp_mobile:7676432122},

...
{emp_name:"Krishna",emp_age:20,emp_salary:40000,emp_designation:"marketing manager",emp_mobile:7890432122},

...
{emp_name:"Dipali",emp_age:30,emp_salary:35000,emp_designation:"HR",emp_mobile:7856432982},

...
{emp_name:"Bhavana",emp_age:22,emp_salary:50000,emp_designation:"HR",emp_mobile:7906432982},

...
{emp_name:"Darshan",emp_age:25,emp_salary:90000,emp_designation:"manager",
emp_mobile:7906432982}]);


## Output:

## db.emp_personal_details.find();

```
employee> db.emp_personal_details.find();
[
  {
    _id: ObjectId('6866490d2e662c93f0748a5f'),
    emp_name: 'Payal',
    emp_age: 62,
    emp_salary: 20000,
    emp_designation: 'manager',
    emp_mobile: 7856932122,
    emp_status: 'Retire'
  },
  {
    _id: ObjectId('68664a772e662c93f0748a60'),
    emp_name: 'Shivani',
    emp_age: 23,
    emp_salary: 30000,
    emp_designation: 'CEO',
    emp_mobile: 7889432122
  },
  {
    _id: ObjectId('68664a772e662c93f0748a61'),
    emp_name: 'Kiran',
    emp_age: 62,
    emp_salary: 40000,
    emp_designation: 'manager',
    emp_mobile: 7857832122,
    emp_status: 'Retire'
  },
  {
    _id: ObjectId('68664a772e662c93f0748a62'),
    emp_name: 'Neha',
    emp_age: 28,
    emp_salary: 10000,
    emp_designation: 'Professior',
    emp_mobile: 7846432122
  },
]
```

# employee> db.createCollection("emp_professional_details");

employee> db.emp_professional_details.insertMany([{ emp_id:101,

... emp_name:"Bhavana",

...    emp_designation: 'manager',

...    emp_salary: 90000,

... emp_incentive:5000,

... working_hours:8 },

... {emp_id:102,emp_name:"Payal", emp_designation: 'manager',emp_salary: 80000,emp_incentive:2000, working_hours:7 },

... {emp_id:103,emp_name:"Shivani", emp_designation: 'HR',emp_salary: 6000,emp_incentive:3000, working_hours:6 },

... {emp_id:104,emp_name:"Artha", emp_designation: 'C.A',emp_salary: 45000,emp_incentive:4000, working_hours:5 },

... {emp_id:105,emp_name:"Harish", emp_designation: 'Software Engineer',emp_salary: 40000,emp_incentive:6000, working_hours:6 },

... {emp_id:106,emp_name:"Deva", emp_designation: 'Developer',emp_salary: 50000,emp_incentive:5000, working_hours:9 },

... {emp_id:107,emp_name:"Chetan", emp_designation: 'Mechanical Engineer ',emp_salary: 79000,emp_incentive:2000, working_hours:8 },

... {emp_id:108,emp_name:"Mayank", emp_designation: 'manager',emp_salary: 70000,emp_incentive:7000, working_hours:10 },

... {emp_id:109,emp_name:"Nidhi", emp_designation: 'HR',emp_salary: 40000,emp_incentive:3000, working_hours:9 },

... {emp_id:110,emp_name:"Arpita", emp_designation: 'manager',emp_salary: 80000,emp_incentive:2000, working_hours:12 },

...

...    ]);

**Output:**

**employee> db.emp_professional_details.find();**

```
employee> db.emp_professional_details.find();
[
  {
    _id: ObjectId('686f7df6a2a8f0590a748a5f'),
    emp_id: 101,
    emp_name: 'Bhavana',
    emp_designation: 'manager',
    emp_salary: 90000,
    emp_incentive: 5000,
    working_hours: 8
  },
  {
    _id: ObjectId('686f7df6a2a8f0590a748a60'),
    emp_id: 102,
    emp_name: 'Payal',
    emp_designation: 'manager',
    emp_salary: 80000,
    emp_incentive: 2000,
    working_hours: 7
  },
  {
    _id: ObjectId('686f7df6a2a8f0590a748a61'),
    emp_id: 103,
    emp_name: 'Shivani',
    emp_designation: 'HR',
    emp_salary: 6000,
    emp_incentive: 3000,
    working_hours: 6
  },
  {
    _id: ObjectId('686f7df6a2a8f0590a748a62'),
    emp_id: 104,
    emp_name: 'Artha',
    emp_designation: 'C.A',
    emp_salary: 45000,
    emp_incentive: 4000,
    working_hours: 5
  },
  {
    _id: ObjectId('686f7df6a2a8f0590a748a63'),
    emp_id: 105,
    emp_name: 'Harish',
```

```
    emp_name: 'Harish',
    emp_designation: 'Software Engineer',
    emp_salary: 40000,
    emp_incentive: 6000,
    working_hours: 6
  },
  {
    _id: ObjectId('686f7df6a2a8f0590a748a64'),
    emp_id: 106,
    emp_name: 'Deva',
    emp_designation: 'Developer',
    emp_salary: 50000,
    emp_incentive: 5000,
    working_hours: 9
  },
  {
    _id: ObjectId('686f7df6a2a8f0590a748a65'),
    emp_id: 107,
    emp_name: 'Chetan',
    emp_designation: 'Mechanical Engineer ',
    emp_salary: 79000,
    emp_incentive: 2000,
    working_hours: 8
  },
  {
    _id: ObjectId('686f7df6a2a8f0590a748a66'),
    emp_id: 108,
    emp_name: 'Mayank',
    emp_designation: 'manager',
    emp_salary: 70000,
    emp_incentive: 7000,
    working_hours: 10
  },
  {
    _id: ObjectId('686f7df6a2a8f0590a748a67'),
    emp_id: 109,
    emp_name: 'Nidhi',
    emp_designation: 'HR',
    emp_salary: 40000,
    emp_incentive: 3000,
    working_hours: 9
  },
  {
    _id: ObjectId('686f7df6a2a8f0590a748a68'),
    emp_id: 110,
    emp_name: 'Arpita',
    emp_designation: 'manager',
    emp_salary: 80000,
    emp_incentive: 2000,
    working_hours: 12
  }
]
employee>
```

## 3 .2) Show all the Employees Having  designation:manager

**employee> db.emp_personal_details.find({emp_designation:"manager"});**

**OR**

**employee> db.emp_personal_details.find({**

**...   emp_designation: { $regex: /^manager$/i }**

**... });**

**Output:**

```
employee> db.emp_personal_details.find({emp_designation:"manager"});
[
  {
    _id: ObjectId('6866490d2e662c93f0748a5f'),
    emp_name: 'Payal',
    emp_age: 62,
    emp_salary: 20000,
    emp_designation: 'manager',
    emp_mobile: 7856932122,
    emp_status: 'Retire'
  },
  {
    _id: ObjectId('68664a772e662c93f0748a61'),
    emp_name: 'Kiran',
    emp_age: 62,
    emp_salary: 40000,
    emp_designation: 'manager',
    emp_mobile: 7857832122,
    emp_status: 'Retire'
  },
  {
    _id: ObjectId('68664a772e662c93f0748a64'),
    emp_name: 'Krisha',
    emp_age: 62,
    emp_salary: 60000,
    emp_designation: 'manager',
    emp_mobile: 4856432122,
    emp_status: 'Retire'
  },
  {
    _id: ObjectId('68664a772e662c93f0748a69'),
    emp_name: 'Darshan',
    emp_age: 62,
    emp_salary: 90000,
    emp_designation: 'manager',
    emp_mobile: 7906432982,
    emp_status: 'Retire'
  }
]
employee>
```

❖ **db.emp_professional_details.find({emp_designation:"manager"});**

**employee>**
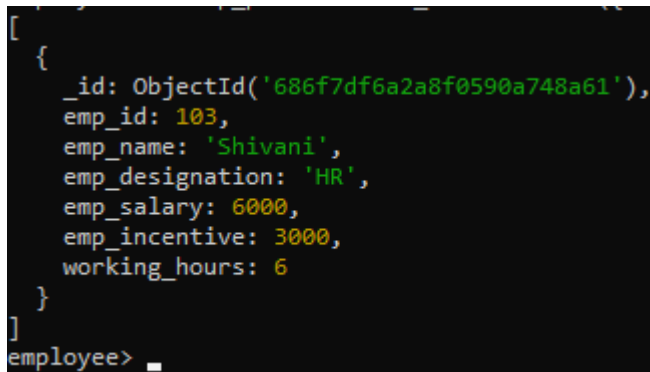**db.emp_professional_details.find({emp_designation:"manager"});**

```
employee> db.emp_professional_details.find({emp_designation:"manager"});
[
  {
    _id: ObjectId('686f7df6a2a8f0590a748a5f'),
    emp_id: 101,
    emp_name: 'Bhavana',
    emp_designation: 'manager',
    emp_salary: 90000,
    emp_incentive: 5000,
    working_hours: 8
  },
  {
    _id: ObjectId('686f7df6a2a8f0590a748a60'),
    emp_id: 102,
    emp_name: 'Payal',
    emp_designation: 'manager',
    emp_salary: 80000,
    emp_incentive: 2000,
    working_hours: 7
  },
  {
    _id: ObjectId('686f7df6a2a8f0590a748a66'),
    emp_id: 108,
    emp_name: 'Mayank',
    emp_designation: 'manager',
    emp_salary: 70000,
    emp_incentive: 7000,
    working_hours: 10
  },
  {
    _id: ObjectId('686f7df6a2a8f0590a748a68'),
    emp_id: 110,
    emp_name: 'Arpita',
    emp_designation: 'manager',
    emp_salary: 80000,
    emp_incentive: 2000,
    working_hours: 12
  }
]
employee>
```

## 3.3) Show all Employee Having Salary 6000

**employee> db.emp_professional_details.find({emp_salary:6000});**

```
[
  {
    _id: ObjectId('686f7df6a2a8f0590a748a61'),
    emp_id: 103,
    emp_name: 'Shivani',
    emp_designation: 'HR',
    emp_salary: 6000,
    emp_incentive: 3000,
    working_hours: 6
  }
]
employee>
```

**employee> db.emp_personal_details.find({status:{$exists:true}});**

**employee> db.emp_personal_details.find({status:{$exists:false}});**

**employee> db.emp_personal_details.updateMany( { emp_designation: "manager" }, { $set: { emp_age: 62 } } );**

**4.Update The Collection emp_personal_details,add field status and set it to retired where age is greater than 60.**

**4.1) db.emp_personal_details.updateMany( {emp_age :{ $gt:60} }, { $set: { emp_status: "Retire" } } );**

**employee> db.emp_personal_details.find();**

```
employee> db.emp_personal_details.find();
[
  {
    _id: ObjectId('6866490d2e662c93f0748a5f'),
    emp_name: 'Payal',
    emp_age: 62,
    emp_salary: 20000,
    emp_designation: 'manager',
    emp_mobile: 7856932122,
    emp_status: 'Retire'
  },
  {
    _id: ObjectId('68664a772e662c93f0748a60'),
    emp_name: 'Shivani',
    emp_age: 23,
    emp_salary: 30000,
    emp_designation: 'CEO',
    emp_mobile: 7889432122
  },
  {
    _id: ObjectId('68664a772e662c93f0748a61'),
    emp_name: 'Kiran',
    emp_age: 62,
    emp_salary: 40000,
    emp_designation: 'manager',
    emp_mobile: 7857832122,
    emp_status: 'Retire'
  },
  {
    _id: ObjectId('68664a772e662c93f0748a62'),
    emp_name: 'Neha',
    emp_age: 28,
    emp_salary: 10000,
    emp_designation: 'Professior',
    emp_mobile: 7846432122
  },
  {
    _id: ObjectId('68664a772e662c93f0748a63'),
    emp_name: 'Punam',
    emp_age: 22,
    emp_salary: 20000,
    emp_designation: 'C.A',
    emp_mobile: 9856432122
  },
  {
    _id: ObjectId('68664a772e662c93f0748a64'),
    emp_name: 'Krisha',
    emp_age: 62,
```

**4.2) Update collection emp professional details, give incentive 5000 to employees whose working hours is greater than 45 per week**

**employee> db.emp_professional_details.updateMany({working_hours: {$gt :45 }}, { $set :{ emp_incentive: 5000 } });**

```
{
  _id: ObjectId('686f7df6a2a8f0590a748a61'),
  emp_id: 103,
  emp_name: 'Shivani',
  emp_designation: 'HR',
  emp_salary: 6000,
  emp_incentive: 5000,
  working_hours: 50
},
{
{
  _id: ObjectId('686f7df6a2a8f0590a748a67'),
  emp_id: 109,
  emp_name: 'Nidhi',
  emp_designation: 'HR',
  emp_salary: 40000,
  emp_incentive: 5000,
  working_hours: 50
},
```

**4.3) Add 1000 to salary employee whose designation is accountant.**

**employee> db.emp_professional_details.updateMany( { emp_designation:"Accountant"},{$inc:{emp_salary:1000}});**

```
},
{
  _id: ObjectId('686f7df6a2a8f0590a748a66'),
  emp_id: 108,
  emp_name: 'Mayank',
  emp_designation: 'Accountant',
  emp_salary: 71000,
  emp_incentive: 7000,
  working_hours: 10
},
```