

PUNE INSTITUTE OF COMPUTER TECHNOLOGY, PUNE

Department of Computer Engineering

A.Y. 2020-21 SEM – I

Subject: DBMSL

MOCK II

Batch: K3

Roll no: **31302**

Name of student: **Aditya Sawant**

Problem statement: Design and Implement any 5 query using MongoDB

- Sorting data in ascending order

```
Command Prompt - mongo
> db.details.find().pretty().sort({"salary":1});
{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e077"),
  "name" : {
    "firstName" : "akshay",
    "lastName" : "chavan"
  },
  "age" : 27,
  "occupation" : {
    "role" : "engineer",
    "type" : "computer"
  },
  "salary" : 12000
},
{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e072"),
  "name" : {
    "firstName" : "amit",
    "lastName" : "patil"
  },
  "age" : 24,
  "occupation" : {
    "role" : "engineer",
    "type" : "civil"
  },
  "salary" : 60000
},
{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e078"),
  "name" : {
    "firstName" : "yash",
    "lastName" : "pandey"
  },
  "age" : 25,
  "occupation" : {
    "role" : "engineer",
    "type" : "electrical"
  },
  "salary" : 75000
},
{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e073"),
  "name" : {
    "firstName" : "atharva",
```

```
Command Prompt - mongo

{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e073"),
  "name" : {
    "firstName" : "atharva",
    "lastName" : "sharma"
  },
  "age" : 25,
  "occupation" : {
    "role" : "engineer",
    "type" : "mechanical"
  },
  "salary" : 85000
},
{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e075"),
  "name" : {
    "firstName" : "ashish",
    "lastName" : "patil"
  },
  "age" : 25,
  "occupation" : {
    "role" : "engineer",
    "type" : "computer"
  },
  "salary" : 90000
},
{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e076"),
  "name" : {
    "firstName" : "amit",
    "lastName" : "singh"
  },
  "age" : 28,
  "occupation" : {
    "role" : "doctor",
    "type" : "ENT"
  },
  "salary" : 120000
},
{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e074"),
  "name" : {
    "firstName" : "ashok",

```

```
Command Prompt - mongo

    "role" : "engineer",
    "type" : "mechanical"
  },
  "salary" : 85000
},
{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e075"),
  "name" : {
    "firstName" : "ashish",
    "lastName" : "patil"
  },
  "age" : 25,
  "occupation" : {
    "role" : "engineer",
    "type" : "computer"
  },
  "salary" : 90000
},
{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e076"),
  "name" : {
    "firstName" : "amit",
    "lastName" : "singh"
  },
  "age" : 28,
  "occupation" : {
    "role" : "doctor",
    "type" : "ENT"
  },
  "salary" : 120000
},
{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e074"),
  "name" : {
    "firstName" : "ashok",
    "lastName" : "verma"
  },
  "age" : 22,
  "occupation" : {
    "role" : "doctor",
    "type" : "neurosurgeon"
  },
  "salary" : 150000
},
}
```

- Finding details of people who are doctors

```
Command Prompt - mongo
> db.details.find({"occupation.role" : "doctor"}).pretty();
{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e074"),
  "name" : {
    "firstName" : "ashok",
    "lastName" : "verma"
  },
  "age" : 22,
  "occupation" : {
    "role" : "doctor",
    "type" : "neurosurgeon"
  },
  "salary" : 1500000
},
{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e076"),
  "name" : {
    "firstName" : "amit",
    "lastName" : "singh"
  },
  "age" : 28,
  "occupation" : {
    "role" : "doctor",
    "type" : "ENT"
  },
  "salary" : 120000
}
```

- Finding details of people who are doctors of type ENT

```
Command Prompt - mongo
> db.details.find({'$and': [{"occupation.role" : "doctor"}, {"occupation.type" : "ENT"}]}).pretty();
{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e076"),
  "name" : {
    "firstName" : "amit",
    "lastName" : "singh"
  },
  "age" : 28,
  "occupation" : {
    "role" : "doctor",
    "type" : "ENT"
  },
  "salary" : 120000
}
```

- Finding max and min from data

```
Command Prompt - mongo
> db.details.find().pretty().sort({"salary":1}).limit(1);
{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e077"),
  "name" : {
    "firstName" : "akshay",
    "lastName" : "chavan"
  },
  "age" : 27,
  "occupation" : {
    "role" : "engineer",
    "type" : "computer"
  },
  "salary" : 12000
}
> db.details.find().pretty().sort({"salary":-1}).limit(1);
{
  "_id" : ObjectId("5fc5e8dd7ee55e82dda0e074"),
  "name" : {
    "firstName" : "ashok",
    "lastName" : "verma"
  },
  "age" : 22,
  "occupation" : {
    "role" : "doctor",
    "type" : "neurosurgeon"
  },
  "salary" : 1500000
}
```

- Finding number of documents in Collection

```
Command Prompt - mongo
> db.details.count();
7
>
```