#### 11/07/2025

1. Create a database sms in monodb

use sms

2. create collection student with fields name, date of birth, city, qualification, email, phone

```
db.createCollection("student")
```

3. insert one student values into student collection

4. insert many values into student table

```
city:"hyderbad",
  qualification: "postgraduate",
  email:"john@gmail.com",
  phone: "9822334455"
    },
{
   _id:"s003",
  name:"kunal",
  dateofbirth:new Date("1967-02-03"),
  city:"pune",
  qualification:"postgraduate",
  email:"kunal@gmail.com",
  phone:"09834978900"
},
{
   _id:"s004",
  name:"maya",
  dateofbirth:new Date("1990-12-17"),
  city:"kolkata",
  qualification: "graduate",
  email:"maya@gmail.com",
  phone:"09830988900"
},
{
   _id:"s005",
  name:"jadeja",
```

```
dateofbirth:new Date("1940-01-17"),
city:"kolkata",
qualification:"postgraduate",
email:"jadeja@gmail.com",
phone:"09839978900"
}
```

# 5. use query operations to find

### (i) students from city kolkata

```
db.student.aggregate(
     {$match:{"city":"kolkata"}}}
)
```

```
_id: 's001',
 name: 'rajesh',
 dateofbirth: 1980-12-17T00:00:00.000Z,
 city: 'kolkata',
 qualification: 'graduate',
 email: 'rajesh@gmail.com',
 phone: '09830978900'
}
 _id: 's004',
 name: 'maya',
 dateofbirth: 1990-12-17T00:00:00.000Z,
 city: 'kolkata',
 qualification: 'graduate',
 email: 'maya@gmail.com',
 phone: '09830988900'
}
 _id: 's005',
 name: 'jadeja',
 dateofbirth: 1940-01-17T00:00:00.000Z,
 city: 'kolkata',
 qualification: 'postgraduate',
 email: 'iadeia@gmail.com'.
```

#### (ii)select postgraduate students

```
db.student.aggregate(
     {$match:{"qualification":"postgraduate"}}
)
```

```
< 1
   _id: 's002',
   name: 'john',
   dateofbirth: 1949-01-17T00:00:00.000Z,
   city: 'hyderbad',
   qualification: 'postgraduate',
   email: 'john@gmail.com',
   phone: '9822334455'
 }
   _id: 's003',
   name: 'kunal',
   dateofbirth: 1967-02-03T00:00:00.000Z,
   city: 'pune',
   qualification: 'postgraduate',
   email: 'kunal@gmail.com',
   phone: '09834978900'
 }
 £
   _id: 's005',
   name: 'jadeja',
   dateofbirth: 1940-01-17T00:00:00.000Z,
   city: 'kolkata',
   qualification: 'postgraduate',
```

#### (iii) find no of students in each city

```
( {
    _id: 'pune',
    count: 1
}
{
    _id: 'kolkata',
    count: 3
}
{
    _id: 'hyderbad',
    count: 1
}
sms >
```

## (iv) sort the students based on name

```
_id: 's005',
 name: 'jadeja',
 dateofbirth: 1940-01-17T00:00:00.000Z,
 city: 'kolkata',
 qualification: 'postgraduate',
 email: 'jadeja@gmail.com',
 phone: '09839978900'
}
{
 _id: 's002',
 name: 'john',
 dateofbirth: 1949-01-17T00:00:00.000Z,
 city: 'hyderbad',
 qualification: 'postgraduate',
 email: 'john@gmail.com',
 phone: '9822334455'
}
 _id: 's003',
 name: 'kunal',
 dateofbirth: 1967-02-03T00:00:00.000Z,
 city: 'pune',
 qualification: 'postgraduate',
```