# Assignment on unstructured database

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Roll no: 242

#### **STATEMENT:**

Design unstructured database and perform insert, update, delete operations on it. Apply commands like count(), limit(),sort(), find on the database. Use operators like \$gt, \$lt,\$in, etc

#### **Insert:**

```
mongosh mongodb://127.0.0.1:27017/MONGODB?directConnection=true&serverSelectionTimeoutMS=2000
Please enter a MongoDB connection string (Default: mongodb://localhost/): MONGODB
 urrent Mongosh Log ID: 646203e8e7559fb9f261e3f5
                         mongodb://127.0.0.1:27017/MONGODB? direct Connection=true \& server Selection Time out MS=2000 \& appName=mongosh+1.8.26.0.6
 Ising MongoDB:
Using Mongosh:
 or mongosh info see: https://docs.mongodb.com/mongodb-shell/
  The server generated these startup warnings when booting 2023-05-15T15:06:49.648+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
 IONGODB> use students
 tudents> db.students.insertOne({ID:242,Name:[{"firstname":"Kaveri","lastname":"Zanzane"}],Branch:"CS",CGPA:9.9,City:"Pune"})
 acknowledged: true
  insertedId: ObjectId("6462052ce7559fb9f261e3f6")
 tudents> db.students.insertOne({ID:101,Name:[{"firstname":"Swara","lastname":"Mahajan"}],Branch:"CS",CGPA:8,City:"Banglore"})
 acknowledged: true,
insertedId: ObjectId("64620586e7559fb9f261e3f7")
 tudents> db.students.insertOne({ID:102,Name:[{"firstname":"Shivani","lastname":"Patil"}],Branch:"MECH",CGPA:8.5,City:"Delhi"})
  insertedId: ObjectId("646205f7e7559fb9f261e3f8")
 tudents> db.students.insertOne({ID:103,Name:[{"firstname":"Aishwarya","lastname":"Pharande"}],Branch:"MECH",CGPA:9,City:"Mumbai"})
 acknowledged: true,
insertedId: ObjectId("64620647e7559fb9f261e3f9")
 tudents> db.students.insertOne({ID:104,Name:[{"firstname":"Janvi","lastname":"Jain"}],Branch:"CIVIL",CGPA:7,City:"Pune"})
 acknowledged: true,
insertedId: ObjectId("64620964e7559fb9f261e3fa")
 tudents> db.students.insertOne({ID:104,Name:[{"firstname":"Kinjal","lastname":"Hundai"}],Branch:"CIVIL",CGPA:7,City:"Pune"})
  insertedId: ObjectId("64620989e7559fb9f261e3fb")
tudents> db.students.insertOne({ID:104,Name:[{"firstname":"Arya","lastname":"Pawar"}],Branch:"ENTC",CGPA:8,City:"Pune"})
 acknowledged: true,
insertedId: ObjectId("646209aee7559fb9f261e3fc")
```

# Find():

```
students> db.students.insertOne({ID:104,Name:[{"firstname":"Arya","lastname":"Pawar"}],Branch:
 acknowledged: true,
  insertedId: ObjectId("646209aee7559fb9f261e3fc")
students> db.students.find()
    _id: ObjectId("6462052ce7559fb9f261e3f6"),
   Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
   Branch: 'CS',
   CGPA: 9.9,
   City: 'Pune'
    _id: ObjectId("64620586e7559fb9f261e3f7"),
   Name: [ { firstname: 'Swara', lastname: 'Mahajan' } ],
   Branch: 'CS',
   CGPA: 8,
   City: 'Banglore'
    _id: ObjectId("646205f7e7559fb9f261e3f8"),
   ID: 102,
   Name: [ { firstname: 'Shivani', lastname: 'Patil' } ],
   Branch: 'MECH',
   CGPA: 8.5,
   City: 'Delhi'
    id: ObjectId("64620647e7559fb9f261e3f9"),
   Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
   Branch: 'MECH',
   CGPA: 9,
City: 'Mumbai'
    _id: ObjectId("64620964e7559fb9f261e3fa"),
   ID: 104,
   Name: [ { firstname: 'Janvi', lastname: 'Jain' } ],
   Branch: 'CIVIL',
   CGPA: 7,
   City: 'Pune'
    id: ObjectId("64620989e7559fb9f261e3fb"),
   ID: 104,
```

## **Delete():** DeleteOne() & DeleteMany()

```
mongosh mongodb://127.0.0.1:27017/MONGODB?directConnection=true&serverSelectionTimeoutMS=2000
students> db.students.deleteOne({ID:104})
 acknowledged: true, deletedCount: 1 }
students> db.students.find()
    _id: ObjectId("6462052ce7559fb9f261e3f6"),
   Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
   Branch: 'CS',
   CGPA: 9.9,
    City: 'Pune'
    _id: ObjectId("64620586e7559fb9f261e3f7"),
   ID: 101,
   Name: [ { firstname: 'Swara', lastname: 'Mahajan' } ],
   Branch: 'CS',
   CGPA: 8,
   City: 'Banglore'
    _id: ObjectId("646205f7e7559fb9f261e3f8"),
   ID: 102,
   Name: [ { firstname: 'Shivani', lastname: 'Patil' } ],
   Branch: 'MECH',
   CGPA: 8.5,
   City: 'Delhi'
    _id: ObjectId("64620647e7559fb9f261e3f9"),
   Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
    Branch: 'MECH',
   CGPA: 9,
   City: 'Mumbai'
    _id: ObjectId("64620989e7559fb9f261e3fb"),
   Name: [ { firstname: 'Kinjal', lastname: 'Hundai' } ],
   Branch: 'CIVIL',
   CGPA: 7,
City: 'Pune'
    id: ObjectId("646209aee7559fb9f261e3fc"),
   Name: [ { firstname: 'Arya', lastname: 'Pawar' } ],
   Branch: 'ENTC',
   CGPA: 8,
```

```
mongosh mongodb://127.0.0.1:27017/MONGODB?directConnection=true&serverSelectionTimeoutMS=2000
   Branch: 'ENTC',
   CGPA: 8,
   City: 'Pune'
tudents> db.students.deleteMany({ID:104})
acknowledged: true, deletedCount: 2 }
tudents> db.students.find()
   _id: ObjectId("6462052ce7559fb9f261e3f6"),
  Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
Branch: 'CS',
CGPA: 9.9,
City: 'Pune'
   _id: ObjectId("64620586e7559fb9f261e3f7"),
   Name: [ { firstname: 'Swara', lastname: 'Mahajan' } ],
   Branch: 'CS',
   CGPA: 8,
City: 'Banglore'
   _id: ObjectId("646205f7e7559fb9f261e3f8"), ID: 102,
   Name: [ { firstname: 'Shivani', lastname: 'Patil' } ],
Branch: 'MECH',
   CGPA: 8.5,
City: 'Delhi'
   _id: ObjectId("64620647e7559fb9f261e3f9"),
   Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
   Branch: 'MECH',
   CGPA: 9,
City: 'Mumbai'
tudents>
```

# Update():UpdateOne()

```
mongosh mongodb://127.0.0.1:27017/MONGODB?directConnection=true&serverSelectionTimeoutMS=2000
    id: ObjectId("64620647e7559fb9f261e3f9"),
    Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
Branch: 'MECH',
    CGPA: 9,
City: 'Mumbai'
students> db.students.updateOne({ID:103},{$set:{"City":"Pune"}})
students> db.students.find()
 acknowledged: true,
  {nsertedId: null,
    _id: ObjectId("6462052ce7559fb9f261e3f6"),
    ID: 242, unt: 1,
    Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
    Branch: 'CS',
CGPA: 9.9,
City: 'Pune'
     _id: ObjectId("64620586e7559fb9f261e3f7"),
    Name: [ { firstname: 'Swara', lastname: 'Mahajan' } ],
    Branch: 'CS',
    CGPA: 8,
City: 'Banglore'
    _id: ObjectId("646205f7e7559fb9f261e3f8"),
   ID: 102,
Name: [ { firstname: 'Shivani', lastname: 'Patil' } ],
Branch: 'MECH',
CGPA: 8.5,
City: 'Delhi'
    _id: ObjectId("64620647e7559fb9f261e3f9"), ID: 103,
    Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
    Branch: 'MECH',
    CGPA: 9,
City: 'Pune'
students>
```

**\$gt, \$lt:** 

```
mongosh mongodb://127.0.0.1:27017/MONGODB?directConnection=true&serverSelectionTim
students> db.students.find({"ID":{$gt:200}})
    _id: ObjectId("6462052ce7559fb9f261e3f6"),
   ID: 242,
   Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
   Branch: 'CS',
   CGPA: 9.9,
   City: 'Pune'
students> db.students.find({"ID":{$1t:105}})
    id: ObjectId("64620586e7559fb9f261e3f7"),
   Name: [ { firstname: 'Swara', lastname: 'Mahajan' } ],
   Branch: 'CS',
   CGPA: 8,
   City: 'Banglore'
    _id: ObjectId("646205f7e7559fb9f261e3f8"),
   Name: [ { firstname: 'Shivani', lastname: 'Patil' } ],
   Branch: 'MECH',
   CGPA: 8.5,
   City: 'Delhi'
    id: ObjectId("64620647e7559fb9f261e3f9"),
   Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
   Branch: 'MECH',
   CGPA: 9,
   City: 'Pune'
students> db.students.find({"ID":{$in:[242,101]}})
    _id: ObjectId("6462052ce7559fb9f261e3f6"),
   Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
   Branch: 'CS',
   CGPA: 9.9,
   City: 'Pune'
```

# Sort() ,Agrregate() & Limit():

```
mongosh mongodb://127.0.0.1:27017/MONGODB?directConnection=true&serverSelectionTimeoutMS=2000
students> db.students.find().sort({CGPA:1})
    _id: ObjectId("64620586e7559fb9f261e3f7"),
   ID: 101,
Name: [ { firstname: 'Swara', lastname: 'Mahajan' } ],
    Branch: 'CS',
    CGPA: 8,
    City: 'Banglore'
     _id: ObjectId("646205f7e7559fb9f261e3f8"),
    Name: [ { firstname: 'Shivani', lastname: 'Patil' } ],
    Branch: 'MECH',
   CGPA: 8.5,
City: 'Delhi'
    _id: ObjectId("64620647e7559fb9f261e3f9"),
   ID: 103,
Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
Branch: 'MECH',
   CGPA: 9,
City: 'Pune'
    _id: ObjectId("6462052ce7559fb9f261e3f6"),
    Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
   Branch: 'CS',
CGPA: 9.9,
City: 'Pune'
students> db.students.find().limit(1)
    _id: ObjectId("6462052ce7559fb9f261e3f6"),
    Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
   Branch: 'CS',
CGPA: 9.9,
City: 'Pune'
students> db.students.aggregate([{$count:"City"}])
[ { City: 4 } ]
```

### \$in:

```
mongosh mongodb://127.0.0.1:27017/MONGODB?directConnection=true&serverSelectionTimeoutMS=2000
    Branch: 'CS',
   CGPA: 8,
City: 'Banglore'
    _id: ObjectId("646205f7e7559fb9f261e3f8"),
   ID: 102,
   Name: [ { firstname: 'Shivani', lastname: 'Patil' } ],
   Branch: 'MECH',
   CGPA: 8.5,
    City: 'Delhi'
    id: ObjectId("64620647e7559fb9f261e3f9"),
   ID: 103,
   Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
   Branch: 'MECH',
   CGPA: 9,
City: 'Pune'
students> db.students.find({"ID":{$in:[242,101]}})
    _id: ObjectId("6462052ce7559fb9f261e3f6"),
    Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
    Branch: 'CS',
    CGPA: 9.9,
    City: 'Pune'
    _id: ObjectId("64620586e7559fb9f261e3f7"),
    Name: [ { firstname: 'Swara', lastname: 'Mahajan' } ],
    Branch: 'CS',
   CGPA: 8,
    City: 'Banglore'
students>
```

{ City: 4 } ]

students>

{ Branch: 4 } ]

students> db.students.aggregate([{\$count:"Branch"}])

## **Commands:**

```
MONGODB> use students
students>
db.students.insertOne({ID:242,Name:[{"firstname":"Kaveri","lastname":"Zanzane"}],Branch:"CS",CGP
A:9.9,City:"Pune"})
 acknowledged: true,
insertedId: ObjectId("6462052ce7559fb9f261e3f6")
}
students>
db.students.insertOne({ID:101,Name:[{"firstname":"Swara","lastname":"Mahajan"}],Branch:"CS",CGP
A:8,City:"Banglore"})
 acknowledged: true,
inserted Id: Object Id ("64620586e7559fb9f261e3f7") \\
}
students>
db.students.insertOne({ID:102,Name:[{"firstname":"Shivani","lastname":"Patil"}],Branch:"MECH",CGP
A:8.5,City:"Delhi"})
{
 acknowledged: true,
insertedId: ObjectId("646205f7e7559fb9f261e3f8")
}
students>
db.students.insertOne({ID:103,Name:[{"firstname":"Aishwarya","lastname":"Pharande"}],Branch:"MEC
H",CGPA:9,City:"Mumbai"})
 acknowledged: true,
insertedId: ObjectId("64620647e7559fb9f261e3f9")
}
```

```
students>
db.students.insertOne({ID:104,Name:[{"firstname":"Janvi","lastname":"Jain"}],Branch:"CIVIL",CGPA:
7,City:"Pune"})
 acknowledged: true,
insertedId: ObjectId("64620964e7559fb9f261e3fa")
}
students>
db.students.insertOne({ID:104,Name:[{"firstname":"Kinjal","lastname":"Hundai"}],Branch:"CIVIL",CG
PA:7,City:"Pune"})
 acknowledged: true,
insertedId: ObjectId("64620989e7559fb9f261e3fb")
}
students>
db.students.insertOne({ID:104,Name:[{"firstname":"Arya","lastname":"Pawar"}],Branch:"ENTC",CGPA
:8,City:"Pune"})
 acknowledged: true,
insertedId: ObjectId("646209aee7559fb9f261e3fc")
students> db.students.find()
[
  _id: ObjectId("6462052ce7559fb9f261e3f6"),
  ID: 242,
  Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
  Branch: 'CS',
  CGPA: 9.9,
  City: 'Pune'
 },
```

```
_id: ObjectId("64620586e7559fb9f261e3f7"),
ID: 101,
Name: [ { firstname: 'Swara', lastname: 'Mahajan' } ],
Branch: 'CS',
CGPA: 8,
City: 'Banglore'
},
_id: ObjectId("646205f7e7559fb9f261e3f8"),
ID: 102,
Name: [ { firstname: 'Shivani', lastname: 'Patil' } ],
Branch: 'MECH',
CGPA: 8.5,
City: 'Delhi'
},
_id: ObjectId("64620647e7559fb9f261e3f9"),
ID: 103,
Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
Branch: 'MECH',
CGPA: 9,
City: 'Mumbai'
},
_id: ObjectId("64620964e7559fb9f261e3fa"),
ID: 104,
Name: [ { firstname: 'Janvi', lastname: 'Jain' } ],
Branch: 'CIVIL',
CGPA: 7,
City: 'Pune'
```

```
},
  _id: ObjectId("64620989e7559fb9f261e3fb"),
  ID: 104,
  Name: [ { firstname: 'Kinjal', lastname: 'Hundai' } ],
  Branch: 'CIVIL',
  CGPA: 7,
  City: 'Pune'
 },
  _id: ObjectId("646209aee7559fb9f261e3fc"),
  ID: 104,
  Name: [ { firstname: 'Arya', lastname: 'Pawar' } ],
  Branch: 'ENTC',
  CGPA: 8,
  City: 'Pune'
 }
]
students> db.students.deleteOne({ID:104})
{ acknowledged: true, deletedCount: 1 }
students> db.students.find()
[
  _id: ObjectId("6462052ce7559fb9f261e3f6"),
  ID: 242,
  Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
  Branch: 'CS',
  CGPA: 9.9,
  City: 'Pune'
```

```
},
 _id: ObjectId("64620586e7559fb9f261e3f7"),
 ID: 101,
 Name: [ { firstname: 'Swara', lastname: 'Mahajan' } ],
 Branch: 'CS',
 CGPA: 8,
 City: 'Banglore'
},
 _id: ObjectId("646205f7e7559fb9f261e3f8"),
 ID: 102,
Name: [ { firstname: 'Shivani', lastname: 'Patil' } ],
 Branch: 'MECH',
 CGPA: 8.5,
 City: 'Delhi'
},
 _id: ObjectId("64620647e7559fb9f261e3f9"),
 ID: 103,
 Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
 Branch: 'MECH',
 CGPA: 9,
 City: 'Mumbai'
},
 _id: ObjectId("64620989e7559fb9f261e3fb"),
 ID: 104,
 Name: [ { firstname: 'Kinjal', lastname: 'Hundai' } ],
 Branch: 'CIVIL',
```

```
CGPA: 7,
  City: 'Pune'
 },
  _id: ObjectId("646209aee7559fb9f261e3fc"),
  ID: 104,
  Name: [ { firstname: 'Arya', lastname: 'Pawar' } ],
  Branch: 'ENTC',
  CGPA: 8,
  City: 'Pune'
 }
students> db.students.deleteMany({ID:104})
{ acknowledged: true, deletedCount: 2 }
students> db.students.find()
[
  _id: ObjectId("6462052ce7559fb9f261e3f6"),
  ID: 242,
  Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
  Branch: 'CS',
  CGPA: 9.9,
  City: 'Pune'
 },
  _id: ObjectId("64620586e7559fb9f261e3f7"),
  ID: 101,
  Name: [ { firstname: 'Swara', lastname: 'Mahajan' } ],
  Branch: 'CS',
  CGPA: 8,
```

```
City: 'Banglore'
 },
  _id: ObjectId("646205f7e7559fb9f261e3f8"),
  ID: 102,
  Name: [ { firstname: 'Shivani', lastname: 'Patil' } ],
  Branch: 'MECH',
  CGPA: 8.5,
  City: 'Delhi'
 },
  _id: ObjectId("64620647e7559fb9f261e3f9"),
  ID: 103,
  Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
  Branch: 'MECH',
  CGPA: 9,
  City: 'Mumbai'
 }
]
  Name: [ { firstname: 'Swara', lastname: 'Mahajan' } ],
  Branch: 'CS',
  CGPA: 8,
  City: 'Banglore'
 },
  _id: ObjectId("646205f7e7559fb9f261e3f8"),
  ID: 102,
  Name: [ { firstname: 'Shivani', lastname: 'Patil' } ],
  Branch: 'MECH',
```

```
CGPA: 8.5,
  City: 'Delhi'
 },
  _id: ObjectId("64620647e7559fb9f261e3f9"),
  ID: 103,
  Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
  Branch: 'MECH',
  CGPA: 9,
  City: 'Pune'
 }
students> db.students.updateOne({ID:103},{$set:{"City":"Pune"}})
students> db.students.find()
[ acknowledged: true,
 {nsertedId: null,
  _id: ObjectId("6462052ce7559fb9f261e3f6"),
  ID: 242,unt: 1,
  Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
  Branch: 'CS',
  CGPA: 9.9,
  City: 'Pune'
 },
  _id: ObjectId("64620586e7559fb9f261e3f7"),
  ID: 101,
  Name: [ { firstname: 'Swara', lastname: 'Mahajan' } ],
  Branch: 'CS',
  CGPA: 8,
  City: 'Banglore'
```

```
},
  _id: ObjectId("646205f7e7559fb9f261e3f8"),
  ID: 102,
  Name: [ { firstname: 'Shivani', lastname: 'Patil' } ],
  Branch: 'MECH',
  CGPA: 8.5,
  City: 'Delhi'
 },
  _id: ObjectId("64620647e7559fb9f261e3f9"),
  ID: 103,
  Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
  Branch: 'MECH',
  CGPA: 9,
  City: 'Pune'
 }
]
 {
  _id: ObjectId("64620647e7559fb9f261e3f9"),
  ID: 103,
  Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
  Branch: 'MECH',
  CGPA: 9,
  City: 'Pune'
 }
students \gt db.students.find(\{"ID":\{\$gt:200\}\})
```

```
{
  _id: ObjectId("6462052ce7559fb9f261e3f6"),
  ID: 242,
  Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
  Branch: 'CS',
  CGPA: 9.9,
  City: 'Pune'
 }
]
students> db.students.find({"ID":{$lt:105}})
[
  _id: ObjectId("64620586e7559fb9f261e3f7"),
  ID: 101,
  Name: [ { firstname: 'Swara', lastname: 'Mahajan' } ],
  Branch: 'CS',
  CGPA: 8,
  City: 'Banglore'
 },
  _id: ObjectId("646205f7e7559fb9f261e3f8"),
  ID: 102,
  Name: [ { firstname: 'Shivani', lastname: 'Patil' } ],
  Branch: 'MECH',
  CGPA: 8.5,
  City: 'Delhi'
 },
  _id: ObjectId("64620647e7559fb9f261e3f9"),
  ID: 103,
```

```
Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
  Branch: 'MECH',
  CGPA: 9,
  City: 'Pune'
 }
]
students> db.students.find({"ID":{$in:[242,101]}})
[
  _id: ObjectId("6462052ce7559fb9f261e3f6"),
  ID: 242,
  Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
  Branch: 'CS',
  CGPA: 9.9,
  City: 'Pune'
 },
  _id: ObjectId("64620586e7559fb9f261e3f7"),
  ID: 101,
  Name: [ { firstname: 'Swara', lastname: 'Mahajan' } ],
  Branch: 'CS',
  CGPA: 8,
  City: 'Banglore'
 }
]
students> db.students.find().sort({CGPA:1})
_id: ObjectId("64620586e7559fb9f261e3f7"),
  ID: 101,
```

```
Name: [ { firstname: 'Swara', lastname: 'Mahajan' } ],
  Branch: 'CS',
  CGPA: 8,
  City: 'Banglore'
 },
  _id: ObjectId("646205f7e7559fb9f261e3f8"),
  ID: 102,
  Name: [ { firstname: 'Shivani', lastname: 'Patil' } ],
  Branch: 'MECH',
  CGPA: 8.5,
  City: 'Delhi'
 },
  _id: ObjectId("64620647e7559fb9f261e3f9"),
  ID: 103,
  Name: [ { firstname: 'Aishwarya', lastname: 'Pharande' } ],
  Branch: 'MECH',
  CGPA: 9,
  City: 'Pune'
 },
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  ID: 242,
  Name: [ { firstname: 'Kaveri', lastname: 'Zanzane' } ],
  Branch: 'CS',
  CGPA: 9.9,
  City: 'Pune'
 }
]
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