Title: Relational & Logical Operators

Aim: Reading the documents using find() with relational and logical operators

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- Q1) imagine a job application portal, Naukri, find suitability of IT professional with Qualifications: Bsc, Msc and Specialisation as Data Science.
- Q2) Display eligible candidates who satisfy dual degree in undergraduation. Display the name and graduation information as the output.

# Switching the database

```
168.00 KiB
Person
Sourabh
               72.00 KiB
               40.00 KiB
84.00 KiB
admin
config
              72.00 KiB
40.00 KiB
local
practical
test
               72.00 KiB
test> use Person
switched to db Person
Person> show collections
Family
1edia ๋
Media Details
```

## Creating a new collection

```
Person> db.createCollection("Naukri
{ ok: 1 }
```

## **Inserting Documents into the Collection**

```
on> db.Naukri.insertOne({Username: "krishagarwal21112016",
       FirstName: "Krish",
LastName: "Agarwal",
ContactInfo: [{emailID: "krish.agarwal@bds.christuniversity.in"},
       {phoneNum: 6383288832}],
Bio: "Aspiring Data Analyst",
.. Bio: "Aspiring Data Analyst",
.. status: "Open to Work",
.. Connections: 252,
.. Activity: {TimeSpent: 25423, NumOfLikes: 2454, NumofCom: 412, NumofShares: 2355,
.. Posts: [{PostNum: 1, Caption: "Check out my recent project on Github!", likes: 324,
shares: 352, comments: [{CommentNum: 1, Text: "Damn Cool project!", likes: 36}, {Comme
tNum: 2, Text: "That seems tough to beat", likes: 99}]]]],
.. CerttificatesLicenses: [{Title: "Data Science", Company: "Coursera", StartDate: Dat
(2022-04-18), EndDate: Date(2022-05-18), CertficateNum: 324867238}],
.. CV: {Name: "Krish Agarwal", ContactInfo: [{emailID: "krish.agarwal@bds.christuniver
ity.in"}, {phoneNum: 7432672343}], Age: 21, Content: "Enter Text here. Blah Blah", Qua
ifications: {UG: {degree: "Data Science", gpa: 3.78}, PG: {degree: "Acturial Science",
gpa: 3.72}}.
        InterestsHobbies: ["Cricket", "Volleyball"],
erson> db.Naukri.insertOne({Username: "harshithav21112041",
       FirstName: "Harshitha",
LastName: "Vemulapalli",
ContactInfo: [{emailID: "harshitha.vemulapalli@bds.christuniversity.in"},
{phoneNum: 5327542754}],
Bio: "Human Resource Manager",
       status: "Open to Work",
Connections: 1098,
Activity: {TimeSpent: 983467, NumOfLikes: 235235, NumofCom: 72424, NumofShares: 241
```

... Posts: [{PostNum: 1, Caption: "Check out my recent project on Github!", likes: 324, shares: 352, comments: [{CommentNum: 1, Text: "Damn Cool project!", likes: 36}, {Comme CommentNum: 2, Text: "That seems tough to beat", likes: 99}]]]}, ... CerttificatesLicenses: [{Title: "Managing Employees 101", Company: "Coursera", Star StartDate: Date(2022-04-18), EndDate: Date(2022-05-18), CertficateNum: 34622554}], ... CV: {Name: "Harshitha Vemulapalli", ContactInfo: [{emailID: "harshitha vemulapalli@ods.christuniversity.in"}, {phoneNum: 5327542754}], Age: 31, Content: "Enter Text here. Blah Blah", Qualifications: {UG: {degree: "BBA", gpa: 3.78}, PG: {degree: "MBA", gpa: 3.78}}

```
Person> db.Naukri.insertOne({Username: "rickyk21112021",
... FirstName: "Ricky",
... LastName: "Kapulla",
... ContactInfo: [{emailID: "ricky.kapulla@bds.christuniversity.in"},
... {phoneNum: 743656245}],
... Bio: "Senior Manager",
... status: "Open to Hiring",
... Connections: 2091,
... Activity: {TimeSpent: 983467, NumOfLikes: 235235, NumofCom: 72424, NumofShares: 241
... Posts: [{PostNum: 1, Caption: "Check out my recent project on Github!", likes: 324, shares: 352, comments: [{CommentNum: 1, Text: "Damn Cool project!", likes: 36}, {CommentNum: 2, Text: "That seems tough to beat", likes: 99}]}]},
... CerttificatesLicenses: [{Title: "Entrepreunership", Company: "Coursera", StartDate: Date(2022-04-18), EndDate: Date(2022-05-18), CertficateNum: 63452345}],
... CV: {Name: "Ricky Kapulla", ContactInfo: {{emailID: "ricky.kapulla@bds.christuniversity.in"}, {phoneNum: 743656245}], Age: 41, Content: "Enter Text here. Blah Blah", Qual Qualifications: {UG: {degree: "BBA", gpa: 3.78}, PG: {degree: "MBA", gpa: 3.72}},
... InterestsHobbies: ["Cricket", "Volleyball"],
... Domain: "Finance"}})
```

#### Collection

```
forsome ob. Naukri.find()

(st. db)rctd(resds)1al35564bb57le59e*),
Username.sub.eappoint(211201),
FirstName: Mrtsh;
LastName: Mrtsh;
Contactinto: (fesh.eappoint)
(fesh.eappoint)
Contactinto: (fesh.eappoint)
Contactinto:
```

Q1) imagine a job application portal, Naukri, find suitability of IT professional with Qualifications: Bsc, Msc and Specialisation as Data Science.

## Code:

```
db.Naukri.find({$and: [{"CV.Domain": "IT"}, {$or: [{"CV.Qualifications.UG.degree": "Data Science"}, {"CV.Qualifications.PG.degree": "Data Science"}]}
]})
```

```
_id: ObjectId("63db51a1135614bb571e639a"),
Username: 'krishagarwal21112016',
FirstName: 'Krish',
LastName: 'Agarwal',
ContactInfo: [
{ emailID: 'krish.agarwal@bds.christuniversity.in' },
{ phoneNum: 6383288832 }
],
Bio: 'Aspiring Data Analyst',
status: 'Open to Work',
Connections: 252,
Activity: {
    TimeSpent: 25423,
    NumOfLikes: 2454,
    NumofCom: 412,
    NumofShares: 2355,
    Destri
           PostNum: 1,
Caption: 'Check out my recent project on Github!',
likes: 324,
               { CommentNum: 1, Text: 'Damn Cool project!', likes: 36 },
                  CommentNum: 2,
Text: 'That seems tough to beat',
likes: 99
       IIII: 'Data Science',
Company: 'Coursera',
StartDate: 'Thu Feb 02 2023 11:31:05 GMT+0530 (India Standard Time)',
EndDate: 'Thu Feb 02 2023 11:31:05 GMT+0530 (India Standard Time)',
CertficateNum: 324867238
   J,
Age: 21,
Content: 'Enter Text here. Blah Blah',
Qualifications: {
    UG: { degree: 'Data Science', gpa: 3.78 },
    P6: { degree: 'Acturial Science', gpa: 3.72 }
    },
InterestsHobbies: [ 'Cricket', 'Volleyball' ],
```

Q2) Display eligible candidates who satisfy dual degree in undergraduation. Display the name and graduation information as the output.

# Code:

```
db.Naukri.find({"CV.Qualifications.DualDegree": "Yes"}, {"CV.Name": 1, "CV.Qualifications": 1, "_id": 0}
```

```
Person> db.Naukri.find({"CV.Qualifications.DualDegree": "Yes"},
... {"CV.Name": 1, "CV.Qualifications": 1, "_id": 0}
...
{
    CV: {
        Name: 'Sneha Gupta',
        Qualifications: {
            UG: { degree: 'Economics and Analytics', gpa: 3.78 },
            PG: { degree: 'Data Science', gpa: 3.72 },
            DualDegree: 'Yes'
        }
    }
}
```