Mini project exercise for Mongo DB lab

BASIC SECTION : How to Use AND Operator in MongoDB

Dataset:

Dataset - StudentsDetails2


```
{
  "_id" : 1,
  "std_name" : "Mukesh",
  "Gender" : "Male",
  "class" : "VI",
  "age" : 11,
  "grd_point" : 33
}

{
  "_id" : 2,
  "std_name" : "Dechamma",
  "Gender" : "Female",
  "class" : "VI",
  "age" : 13,
  "grd_point" : 30
}

{
  "_id" : 3,
  "std_name" : "Akash",
```

```
  "Gender" : "Male",
  "class" : "V",
  "age" : 14,
  "grd_point" : 35.1257
}

{
  "_id" : 4,
  "std_name" : "Geetha",
  "Gender" : "Female",
  "class" : "X",
  "age" : 17,
  "grd_point" : 36.2514
}

{
  "_id" : 5,
  "std_name" : "Bhomika",
  "Gender" : "Female",
  "class" : "X",
  "age" : 19,
  "grd_point" : 35.5201
}

{
  "_id" : 6,
  "std_name" : "Nitin",
  "Gender" : "Male",
```

"class" : "V",

"age" : 16,

"grd_point" : 35.5201

}

21) Demonstrate Use Of And Operator Displays Record Whose Gender Is Female And Are Studing In X STD --2 Conditions --Use Add Condition.

db.studentdetails.find({$and: [{ Gender: "Female" },{ class: "X" }]})

```
> db.studentdetails.find({$and: [{ Gender: "Female" },{ class: "X" }]})
< {
    _id: 4,
    std_name: 'Geetha',
    Gender: 'Female',
    class: 'X',
    age: 17,
    grd_point: 36.2514
  }
  {
    _id: 5,
    std_name: 'Bhomika',
    Gender: 'Female',
    class: 'X',
    age: 19,
    grd_point: 35.5201
  }
```

22) Displays Count Regarding How Many Female Students Are There In X Std, Use Add Condition

db.studentdetails.countDocuments({$and:[{Gender:"Female" },{class: "X" }]})

```
> db.studentdetails.countDocuments({$and:[{Gender:"Female" },{class: "X" }]})
< 2
```

23) Demonstrate AND Operator Displays Record Whose Gender Is Male And Are In X STD

db.studentdetails.find({$and:[{Gender:"Male" },{class: "X"}]})

```
> db.studentdetails.find({$and:[{Gender:"Male" },{class: "X"}]})
<
```

24) Displays Count Regarding How Many Male Students Are There In V Std, Use Add Condition

db.studentdetails.countDocuments({

$and: [

{ Gender: "Male" },

{ class: "V" }

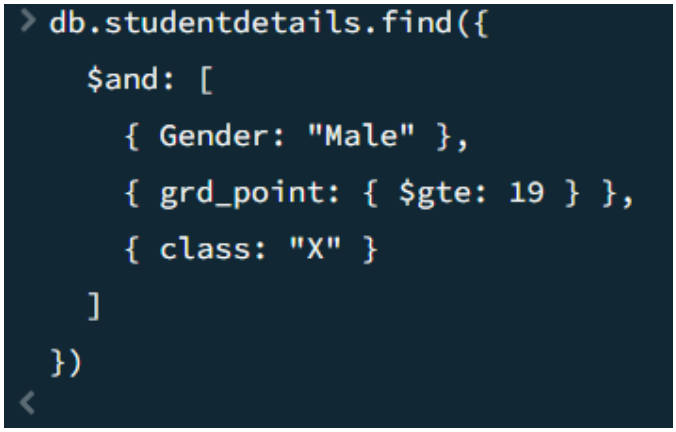
]

})

```
> db.studentdetails.countDocuments({
    $and: [
      { Gender: "Male" },
      { class: "V" }
    ]
  })
< 2
```

25) Query To Find Whose Gender Male",grd_point>=19 And Class=X

```
db.studentdetails.find({
  $and: [
    { Gender: "Male" },
    { grd_point: { $gte: 19 } },
    { class: "X" }
  ]
})
```



26) Displays Students Details Whose Gender Is Female and grade point Greater Than Or Equal To 36 Use Add Condition.

```
db.studentdetails.find({
  $and: [
    { Gender: "Female" },
    { grd_point: { $gte: 36 } }
  ]
})
```

```
> db.studentdetails.find({
    $and: [
      { Gender: "Female" },
      { grd_point: { $gte: 36 } }
    ]
  })
< {
    _id: 4,
    std_name: 'Geetha',
    Gender: 'Female',
    class: 'X',
    age: 17,
    grd_point: 36.2514
  }
```

27) Displays Students Details Whose grd_point between 30 and 35, Use Add Condition

```
db.studentdetails.find({
  $and: [
    { grd_point: { $gte: 30 } },
    { grd_point: { $lte: 35 } }
  ]
})
```

```
> db.studentdetails.find({
    $and: [
      { grd_point: { $gte: 30 } },
      { grd_point: { $lte: 35 } }
    ]
  })
< {
    _id: 1,
    std_name: 'Mukesh',
    Gender: 'Male',
    class: 'VI',
    age: 11,
    grd_point: 33
  }
  {
    _id: 2,
    std_name: 'Dechamma',
    Gender: 'Female',
    class: 'VI',
    age: 13,
    grd_point: 30
  }
```

28) Displays Students Details Whose Age Between 20 And 128

```
db.studentdetails.find({
 $and: [
  { age: { $gte: 20 } },
  { age: { $lte: 128 } }
 ]
})
```

```
> db.studentdetails.find({
    $and: [
      { age: { $gte: 20 } },
      { age: { $lte: 128 } }
    ]
  })
<
```

INTERMEDIATE SECTION :

39) Query Find Marks Greater Than Or Equal To 80 Using $Elemmatch

db.details.find({marks:{$elemMatch: { $gte:80 }}});

40) Query To Find Marks Between 80 And 85 Using $Elemmatch

db.details.find({marks:{$elemMatch: { $gte:80,$lte:85 }}});

```
  ],
  marks: [
    90,
    85,
    70
  ]
}
{
  _id: 4,
  details: [
    {
      name: 'manjunath',
      age: 22
    }
  ],
  marks: [
    88,
    81,
    78
  ]
}
```