PRASHANT
REG_NO:22122036

LAB-11 : NoSQL: Performing selection and projection in mongodb

use a collection "Students" to demonstrate selection and projection

1. Display all data from the collection for all students with age <21
2.display name and age of all the students with age <21
3. Display the names of all students whose name starts with "P"

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```
db.information.find()
 "_id" : ObjectId("639b4fd1d8c11d206df00b13"), "name" : "prashant", "age" : 23, "course" : "msc", "section" : "A" }
 "_id" : ObjectId("639b5006d8c11d206df00b14"), "name" : "nishant", "age" : 19, "course" : "law", "section" : "b" }
 "_id" : ObjectId("639b502cd8c11d206df00b15"), "name" : "darvesh", "age" : 34, "course" : "mba", "section" : "A" }
 "_id" : ObjectId("639b505ed8c11d206df00b16"), "name" : "aditi", "age" : 25, "course" : "bba", "section" : "E" }
 "_id" : ObjectId("639b507ad8c11d206df00b17"), "name" : "kapil", "age" : 21, "course" : "msc", "section" : "A" }

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```

Display all data from the collection for all students with age <21

Display all data from the collection for all students with age <21

```
db.information.find({age:{$gt:21}}).pretty()

        "_id" : ObjectId("639b4fd1d8c11d206df00b13"),
        "name" : "prashant",
        "age" : 23,
        "course" : "msc",
        "section" : "A"


        "_id" : ObjectId("639b502cd8c11d206df00b15"),
        "name" : "darvesh",
        "age" : 34,
        "course" : "mba",
        "section" : "A"


        "_id" : ObjectId("639b505ed8c11d206df00b16"),
        "name" : "aditi",
        "age" : 25,
        "course" : "bba",
        "section" : "E"
```

2.display name and age of all the students with age <21

```
db.information.find({age:{$gt:21}},{_id:0,name:1,age:1})
"name" : "prashant", "age" : 23 }
"name" : "darvesh", "age" : 34 }
"name" : "aditi", "age" : 25 }
db.information.find({age:{$gt:21}},{_id:0,name:1,age:1}).pretty()
"name" : "prashant", "age" : 23 }
"name" : "darvesh", "age" : 34 }
"name" : "aditi", "age" : 25 }
db.information.find({name:/^p/}).pretty()

        "_id" : ObjectId("639b4fd1d8c11d206df00b13"),
        "name" : "prashant",
        "age" : 23,
        "course" : "msc",
        "section" : "A"
```

Display the names of all students whose name starts with "P"

```
db.information.find({name:/^p/}).pretty()

        "_id" : ObjectId("639b4fd1d8c11d206df00b13"),
        "name" : "prashant",
        "age" : 23,
        "course" : "msc",
        "section" : "A"
```