

NodeJS Practical – 4

- **Question : 2**

- **2.1) Insert the following documents into the users collection.**

- **Command :**

```
db.users.insertMany([
  {
    "username": "GoodGuyGreg",
    "first_name": "Good Guy",
    "last_name": "Greg"
  },
  {
    "username": "ScumbagSteve",
    "full_name": {
      "first": "Scumbag",
      "last": "Steve"
    }
  }
])
```

- **2.2) Insert the following documents into the posts collection.**

- **Command :**

```
db.posts.insertMany([
  {
    "username": "GoodGuyGreg",
    "title": "Passes out at party",
    "body": "Wakes up early and cleans house"
  },
  {
    "username": "GoodGuyGreg",
    "title": "Steals your identity",
    "body": "Raises your credit score"
  },
  {
    "username": "GoodGuyGreg",
    "title": "Reports a bug in your code",
    "body": "Sends you a Pull Request"
  },
  {
    "username": "ScumbagSteve",
    "title": "Borrows something",
    "body": "Sells it"
  },
  {
    "username": "ScumbagSteve",
    "title": "Borrows everything",
    "body": "The end"
  },
  {
    "username": "ScumbagSteve",
    "title": "Forks your repo on github",
    "body": "Sets to private"
  }
])
```

```
}  
})
```

- **2.3) Insert the following documents into the comments collection.**

- Command :

```
db.users.insertMany([  
  {  
    "username": "GoodGuyGreg",  
    "comment": "Hope you got a good deal!",  
    "post": [  
      ObjectId("6228efb23919bf8067d55db9")  
    ]  
  },  
  {  
    "username": "GoodGuyGreg",  
    "comment": "What's mine is yours!",  
    "post" : [  
      ObjectId("6228efb23919bf8067d55dba")  
    ]  
  },  
  {  
    "username": "GoodGuyGreg",  
    "comment": "Don't violate the licensing agreement!",  
    "post": [  
      ObjectId("6228efb23919bf8067d55dbb")  
    ]  
  },  
  {  
    "username": "ScumbagSteve",  
    "comment": "It still isn't clean",  
    "post": [  
      ObjectId("6228efb23919bf8067d55db6")  
    ]  
  },  
  {  
    "username": "ScumbagSteve",  
    "comment": "Denied your PR cause I found a hack",  
    "post": [  
      ObjectId("6228efb23919bf8067d55db8")  
    ]  
  }  
])
```

- **2.4.1) Find all the users.**

- Command :

```
db.users.find().pretty()
```

- O/P :

```
{  
  "_id" : ObjectId("6228f21b3919bf8067d55dbc"),  
  "username" : "GoodGuyGreg",  
  "first_name" : "Good Guy",  
  "last_name" : "Greg",  
  "comment" : "Hope you got a good deal!",  
  "post" : [  
    ObjectId("6228efb23919bf8067d55db9")  
  ],  
  "created_at" : ISODate("2016-07-20T10:00:00Z")  
}
```

```

        "last_name" : "Greg"
    }
    {
        "_id" : ObjectId("6228f21b3919bf8067d55dbd"),
        "username" : "ScumbagSteve",
        "full_name" : {
            "first" : "Scumbag",
            "last" : "Steve"
        }
    }
}

```

- **2.4.2) Find all the posts.**

- Command :
db.posts.find().pretty()

- O/P :

```

{
    "_id" : ObjectId("6228efb23919bf8067d55db6"),
    "username" : "GoodGuyGreg",
    "title" : "Passes out at party",
    "body" : "Wakes up early and cleans house"
}
{
    "_id" : ObjectId("6228efb23919bf8067d55db7"),
    "username" : "GoodGuyGreg",
    "title" : "Steals your identity",
    "body" : "Raises your credit score"
}
{
    "_id" : ObjectId("6228efb23919bf8067d55db8"),
    "username" : "GoodGuyGreg",
    "title" : "Reports a bug in your code",
    "body" : "Sends you a Pull Request"
}
{
    "_id" : ObjectId("6228efb23919bf8067d55db9"),
    "username" : "ScumbagSteve",
    "title" : "Borrows something",
    "body" : "Sells it"
}
{
    "_id" : ObjectId("6228efb23919bf8067d55dba"),
    "username" : "ScumbagSteve",
    "title" : "Borrows everything",
    "body" : "The end"
}
{
    "_id" : ObjectId("6228efb23919bf8067d55dbb"),
    "username" : "ScumbagSteve",
    "title" : "Forks your repo on github",
    "body" : "Sets to private"
}
}

```

- **2.4.3) Find all posts which are authored by "GoodGuyGreg".**

- Command :

```
db.posts.find({username: "GoodGuyGreg"}).pretty()
```

○ O/P :

```
{
  "_id" : ObjectId("6228efb23919bf8067d55db6"),
  "username" : "GoodGuyGreg",
  "title" : "Passes out at party",
  "body" : "Wakes up early and cleans house"
}
{
  "_id" : ObjectId("6228efb23919bf8067d55db7"),
  "username" : "GoodGuyGreg",
  "title" : "Steals your identity",
  "body" : "Raises your credit score"
}
{
  "_id" : ObjectId("6228efb23919bf8067d55db8"),
  "username" : "GoodGuyGreg",
  "title" : "Reports a bug in your code",
  "body" : "Sends you a Pull Request"
}
```

- **2.4.4) Find all posts which are authored by "ScumbagSteve".**

○ Command :

```
db.posts.find({username: "ScumbagSteve"}).pretty()
```

○ O/P :

```
{
  "_id" : ObjectId("6228efb23919bf8067d55db9"),
  "username" : "ScumbagSteve",
  "title" : "Borrows something",
  "body" : "Sells it"
}
{
  "_id" : ObjectId("6228efb23919bf8067d55dba"),
  "username" : "ScumbagSteve",
  "title" : "Borrows everything",
  "body" : "The end"
}
{
  "_id" : ObjectId("6228efb23919bf8067d55dbb"),
  "username" : "ScumbagSteve",
  "title" : "Forks your repo on github",
  "body" : "Sets to private"
}
```

- **2.4.5) Find all the comments.**

○ Command :

```
db.comments.find().pretty()
```

```

○ O/P :
{
  "_id" : ObjectId("6228f2a93919bf8067d55dbe"),
  "username" : "GoodGuyGreg",
  "comment" : "Hope you got a good deal!",
  "post" : [
    ObjectId("6228efb23919bf8067d55db9")
  ]
}
{
  "_id" : ObjectId("6228f3c53919bf8067d55dbf"),
  "username" : "GoodGuyGreg",
  "comment" : "What's mine is yours!",
  "post" : [
    ObjectId("6228efb23919bf8067d55dba")
  ]
}
{
  "_id" : ObjectId("6228f3df3919bf8067d55dc0"),
  "username" : "GoodGuyGreg",
  "comment" : "Don't violate the licensing agreement!",
  "post" : [
    ObjectId("6228efb23919bf8067d55dbb")
  ]
}
{
  "_id" : ObjectId("6228f3f53919bf8067d55dc1"),
  "username" : "ScumbagSteve",
  "comment" : "It still isn't clean",
  "post" : [
    ObjectId("6228efb23919bf8067d55db6")
  ]
}
{
  "_id" : ObjectId("6228f41d3919bf8067d55dc2"),
  "username" : "ScumbagSteve",
  "comment" : "Denied your PR cause I found a hack",
  "post" : [
    ObjectId("6228efb23919bf8067d55db8")
  ]
}
}

```

- **2.4.6) Find all comments which are authored by "GoodGuyGreg".**

```

○ Command :
db.comments.find({username: "GoodGuyGreg"}).pretty()

○ O/P :
{
  "_id" : ObjectId("6228f2a93919bf8067d55dbe"),
  "username" : "GoodGuyGreg",
  "comment" : "Hope you got a good deal!",
  "post" : [
    ObjectId("6228efb23919bf8067d55db9")
  ]
}
{

```

```

    "_id" : ObjectId("6228f3c53919bf8067d55dbf"),
    "username" : "GoodGuyGreg",
    "comment" : "What's mine is yours!",
    "post" : [
        ObjectId("6228efb23919bf8067d55dba")
    ]
}
{
    "_id" : ObjectId("6228f3df3919bf8067d55dc0"),
    "username" : "GoodGuyGreg",
    "comment" : "Don't violate the licensing agreement!",
    "post" : [
        ObjectId("6228efb23919bf8067d55dbb")
    ]
}

```

2.4.7) Find all comments which are authored by "ScumbagSteve".

- Command :
db.comments.find({username: "ScumbagSteve"}).pretty()

```

○ O/P :
{
    "_id" : ObjectId("6228f3f53919bf8067d55dc1"),
    "username" : "ScumbagSteve",
    "comment" : "It still isn't clean",
    "post" : [
        ObjectId("6228efb23919bf8067d55db6")
    ]
}
{
    "_id" : ObjectId("6228f41d3919bf8067d55dc2"),
    "username" : "ScumbagSteve",
    "comment" : "Denied your PR cause I found a hack",
    "post" : [
        ObjectId("6228efb23919bf8067d55db8")
    ]
}

```

- **2.4.8) Find all comments belonging to the post "Reports a bug in your code".**

- Command :
db.posts.aggregate([{\$match: {title: "Reports a bug in your code"}}, {\$lookup: {from: "comments", localField: "_id", foreignField: "post", as: "CommentWithPost"}}, {\$unwind: "\$CommentWithPost"}, {\$replaceRoot: {newRoot: "\$CommentWithPost"}}, {\$project: {_id: 0}}]).pretty()

```

○ O/P :
{
    "username" : "ScumbagSteve",
    "comment" : "Denied your PR cause I found a hack",
    "post" : ObjectId("6228efb23919bf8067d55db8")
}

```