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.users.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"
        }
        {
                "_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"}}, {$project: {_id: 0, CommentWithPost: 1}}]).pretty()

  ○ O/P :
```
{
        "CommentWithPost" : [
                {
                        "_id" : ObjectId("6228f41d3919bf8067d55dc2"),
                        "username" : "ScumbagSteve",
                        "comment" : "Denied your PR cause I found a hack",
                        "post" : ObjectId("6228efb23919bf8067d55db8")
                }
        ]
}
```