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EXERCISE

1. Create a Database named 'MYWall'

```
> show dbs
admin    0.000GB
config   0.000GB
local    0.000GB
test     0.000GB
> use MyWall
switched to db MyWall
> db
MyWall
>
```

2. Create two collections named 'user and "post'

```
> db.createCollection('user')
{ "ok" : 1 }
> db.createCollection('post')
{ "ok" : 1 }
> show collections()
uncaught exception: Error: don't know how to show [collections()] :
shellHelper.show@src/mongo/shell/utils.js:1191:11
shellHelper@src/mongo/shell/utils.js:819:15
@(shellhelp2):1:1
> show collections
post
user
>
```

3. Insert some post-related information like post_id, title, description, posted_by, comments, created_at, etc…

```
> db.post.insert(
... {
... title:"My vacations",
... description:"Trip to manali",
... posted_by:"Chirag Gandhi",
... comments:[
... {
... comment_id:ObjectId(),
... message:"Great Content",
... timestamp:new Date(Date.now())
... }
... ],
... created_at:"Delhi"
... }
... )
WriteResult({ "nInserted" : 1 })
```

Results:

```
> db.post.find().pretty()
{
        "_id" : ObjectId("607b34ab9842d163bbf2214e"),
        "title" : "My vacations",
        "description" : "Trip to manali",
        "posted_by" : "Chirag Gandhi",
        "comments" : [
                {
                        "comment_id" : ObjectId("607b34ab9842d163bbf2214d"),
                        "message" : "Great Content",
                        "timestamp" : ISODate("2021-04-17T19:19:07.586Z")
                }
        ],
        "created_at" : "Delhi"
}
```

4. Comments should be an array of objects which has comment_id,
   message, timestamp

```
> db.post.find().pretty()
{
        "_id" : ObjectId("607b34ab9842d163bbf2214e"),
        "title" : "My vacations",
        "description" : "Trip to manali",
        "posted_by" : "Chirag Gandhi",
        "comments" : [
                {
                        "comment_id" : ObjectId("607b34ab9842d163bbf2214d"),
                        "message" : "Great Content",
                        "timestamp" : ISODate("2021-04-17T19:19:07.586Z")
                }
        ],
        "created_at" : "Delhi"
}
```

5. Write a query to add a new comment for a post

```
> db.post.update({"title":"My vacations"},{$push:{comments:{"comment_id":ObjectId(),"message":"Enjoy","timestamp":new Date(Date.now())}}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find().pretty()
{
        "_id" : ObjectId("607b34ab9842d163bbf2214e"),
        "title" : "My vacations",
        "description" : "Trip to manali",
        "posted_by" : "Chirag Gandhi",
        "comments" : [
                {
                        "comment_id" : ObjectId("607b34ab9842d163bbf2214d"),
                        "message" : "Great Content",
                        "timestamp" : ISODate("2021-04-17T19:19:07.586Z")
                },
                {
                        "comment_id" : ObjectId("607b35eb9842d163bbf22151"),
                        "message" : "Enjoy",
                        "timestamp" : ISODate("2021-04-17T19:24:27.986Z")
                }
        ],
        "created_at" : "Delhi"
}
```

6. Write a query to update the description of a post

```
> db.post.update({"title":"My vacations"},{$set:{description:"Best Vacation"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find().pretty()
{
        "_id" : ObjectId("607b34ab9842d163bbf2214e"),
        "title" : "My vacations",
        "description" : "Best Vacation",
        "posted_by" : "Chirag Gandhi",
        "comments" : [
                {
                        "comment_id" : ObjectId("607b34ab9842d163bbf2214d"),
                        "message" : "Great Content",
                        "timestamp" : ISODate("2021-04-17T19:19:07.586Z")
                },
                {
                        "comment_id" : ObjectId("607b35eb9842d163bbf22151"),
                        "message" : "Enjoy",
                        "timestamp" : ISODate("2021-04-17T19:24:27.986Z")
                }
        ],
        "created_at" : "Delhi"
}
```

7. Write a query to update the comment message

```
> db.post.update({title:"My vacations","comments.comment_id":ObjectId("607b35eb9842d163bbf22151")},{$set:{"comments.$.message":"Good Going"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find().pretty()
{
        "_id" : ObjectId("607b34ab9842d163bbf2214e"),
        "title" : "My vacations",
        "description" : "Best Vacation",
        "posted_by" : "Chirag Gandhi",
        "comments" : [
                {
                        "comment_id" : ObjectId("607b34ab9842d163bbf2214d"),
                        "message" : "Great Content",
                        "timestamp" : ISODate("2021-04-17T19:19:07.586Z")
                },
                {
                        "comment_id" : ObjectId("607b35eb9842d163bbf22151"),
                        "message" : "Good Going",
                        "timestamp" : ISODate("2021-04-17T19:24:27.986Z")
                }
        ],
        "created_at" : "Delhi"
}
```

8. Write a query to remove a comment

```
> db.post.update({title:"My vacations"},{$pull:{"comments":{"comment_id":ObjectId("607b35eb9842d163bbf22151")}}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find().pretty()
{
        "_id" : ObjectId("607b34ab9842d163bbf2214e"),
        "title" : "My vacations",
        "description" : "Best Vacation",
        "posted_by" : "Chirag Gandhi",
        "comments" : [
                {
                        "comment_id" : ObjectId("607b34ab9842d163bbf2214d"),
                        "message" : "Great Content",
                        "timestamp" : ISODate("2021-04-17T19:19:07.586Z")
                }
        ],
        "created_at" : "Delhi"
}
```