Exercise Answers

Create a Database named 'MYWall'

```
> use MYWall
switched to db MYWall
> db
MYWall
```

Create two collections named 'user and "post'

```
> db.createCollection("user")
{ "ok" : 1 }
> db.createCollection("post")
{ "ok" : 1 }
> show dbs
MYWall  0.000GB
admin   0.000GB
config  0.000GB
local   0.000GB
testdb  0.000GB
```

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

```
> db.post.insertMany( [ {post_id: 1, title: 'post_1', description: 'some t
ext', posted_by: new Date(), comments: [], created_at: new Date() }, { pos
t_id: 2, title: 'post_2', description: 'some text', posted_by: new Date(),
 comments: [], created_by: new Date()} ])
{
        "acknowledged" : true,
        "insertedIds" : [
                ObjectId("5eaffce90baabb23dc76befb"),
                ObjectId("5eaffce90baabb23dc76befc")
        ]
}
```

```
> db.post.find().pretty()
{
        "_id" : ObjectId("5eaffce90baabb23dc76befb"),
        "post_id" : 1,
        "title" : "post_1",
        "description" : "some text",
        "posted_by" : ISODate("2020-05-04T11:30:49.259Z"),
        "comments" : [ ],
        "created_at" : ISODate("2020-05-04T11:30:49.259Z")
}
{
        "_id" : ObjectId("5eaffce90baabb23dc76befc"),
        "post_id" : 2,
        "title" : "post_2",
        "description" : "some text",
        "posted_by" : ISODate("2020-05-04T11:30:49.259Z"),
        "comments" : [ ],
        "created_by" : ISODate("2020-05-04T11:30:49.259Z")
}
>
```

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

Write query to add a new comment for a post

```
> db.post.update(
... { post_id: 1 },
... { $push: { comments: { comment_id: 1, message: 'some text', timestamp:
 new Date() } } } )
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find({post_id: 1}).pretty()
{
        "_id" : ObjectId("5eaffce90baabb23dc76befb"),
        "post_id" : 1,
        "title" : "post_1",
        "description" : "some text",
        "posted_by" : ISODate("2020-05-04T11:30:49.259Z"),
        "comments" : [
                {
                        "comment_id" : 1,
                        "message" : "some text",
                        "timestamp" : ISODate("2020-05-04T11:50:42.077Z")
                }
        ],
        "created_at" : ISODate("2020-05-04T11:30:49.259Z")
}
>
```

Write query to update description of a post

```
> db.post.update(
... { post_id: 2 },
... {
...   $set: {
...           description: 'updated text'
...         }
... })
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find({post_id: 2}).pretty()
{
        "_id" : ObjectId("5eaffce90baabb23dc76befc"),
        "post_id" : 2,
        "title" : "post_2",
        "description" : "updated text",
        "posted_by" : ISODate("2020-05-04T11:30:49.259Z"),
        "comments" : [ ],
        "created_by" : ISODate("2020-05-04T11:30:49.259Z")
}
>
```

Write query to update comment message

```
> db.post.update( {post_id: 1}, {$set: { "comments.$[element].message" : "
updated message" }}, { arrayFilters: [{"element.comment_id": {$eq: 1}}] })

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find({post_id: 1}).pretty()
{
        "_id" : ObjectId("5eaffce90baabb23dc76befb"),
        "post_id" : 1,
        "title" : "post_1",
        "description" : "some text",
        "posted_by" : ISODate("2020-05-04T11:30:49.259Z"),
        "comments" : [
                {
                        "comment_id" : 1,
                        "message" : "updated message",
                        "timestamp" : ISODate("2020-05-04T11:50:42.077Z")
                },
                {
                        "comment_id" : 2,
                        "message" : "some text",
                        "timestamp" : ISODate("2020-05-04T11:59:18.728Z")
                }
        ],
        "created_at" : ISODate("2020-05-04T11:30:49.259Z")
}
>
```

Write query to remove a comment

```
> db.post.find({post_id: 1}).pretty()
{
        "_id" : ObjectId("5eaffce90baabb23dc76befb"),
        "post_id" : 1,
        "title" : "post_1",
        "description" : "some text",
        "posted_by" : ISODate("2020-05-04T11:30:49.259Z"),
        "comments" : [
                {
                        "comment_id" : 1,
                        "message" : "some text",
                        "timestamp" : ISODate("2020-05-04T11:50:42.077Z")
                },
                {
                        "comment_id" : 2,
                        "message" : "some text",
                        "timestamp" : ISODate("2020-05-04T11:59:18.728Z")
                },
                {
                        "comment_id" : 3,
                        "message" : "some text",
                        "timestamp" : ISODate("2020-05-04T12:01:15.394Z")
                }
        ],
        "created_at" : ISODate("2020-05-04T11:30:49.259Z")
}
```

```
> db.post.update({post_id: 1}, { $pop: {comments: 1}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find({post_id: 1}).pretty()
{
        "_id" : ObjectId("5eaffce90baabb23dc76befb"),
        "post_id" : 1,
        "title" : "post_1",
        "description" : "some text",
        "posted_by" : ISODate("2020-05-04T11:30:49.259Z"),
        "comments" : [
                {
                        "comment_id" : 1,
                        "message" : "some text",
                        "timestamp" : ISODate("2020-05-04T11:50:42.077Z")
                },
                {
                        "comment_id" : 2,
                        "message" : "some text",
                        "timestamp" : ISODate("2020-05-04T11:59:18.728Z")
                }
        ],
        "created_at" : ISODate("2020-05-04T11:30:49.259Z")
}
>
```