

Exercise

1. Create a Database named 'MYWall'

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

Ans.

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

```
> db.createCollection("user")
{ "ok" : 1 }
> db.createCollection("post")
{ "ok" : 1 }
> show collections
post
user
```

Ans.

3. Insert some post related information like post_id, title, description , posted_by, comments, created_at etc. Comments should be an array of objects which has comment_id, message, timestamp.

Ans.

```

> db.post.insert({
...   "post_id":2,
...   "title":"sunt aut facere repellat provident occaecati excepturi
optio reprehenderit",
...   "description":"quia et suscipit\nsuscipit recusandae consequuntur
expedita et cum\nreprehenderit molestiae ut ut quas totam\nnostrum re
rum est autem sunt rem eveniet architecto",
...   "posted_by":3,
...   "comments":[
...     {
...       "comment_id":1,
...       "message":"lorem ipsum uasi est quidem magnam voluptate ip
sam eos\nntempora quo necessitatibus\ndolor quam autem quasi\nreicien
dis et nam sapiente accusantium"
...     },
...     {
...       "comment_id":2,
...       "message":"lorem ipsum uasi est quidem magnam voluptate ip
sam eos\nntempora quo necessitatibus\ndolor quam autem quasi\nreicien
dis et nam sapiente accusantium"
...     }
...   ]
... })

```

```

> db.post.update({"post_id":4,"comments.comment_id":5},{ $set:{"comments.$.timest
amp":ISODate()}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find({"post_id":1}).pretty()
{
  "_id" : ObjectId("5cb8491eaad633998088b81a"),
  "post_id" : 1,
  "title" : "sunt aut facere repellat provident occaecati excepturi optio
reprehenderit",
  "description" : "quia et suscipit\nsuscipit recusandae consequuntur expe
dita et cum\nreprehenderit molestiae ut ut quas totam\nnostrum rerum est autem s
unt rem eveniet architecto",
  "posted_by" : 1,
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "laudantium enim quasi est quidem magnam vol
uptate ipsam eos\nntempora quo necessitatibus\ndolor quam autem quasi\nreicien
dis et nam sapiente accusantium",
      "timestamp" : ISODate("2019-04-18T10:44:54.655Z")
    }
  ]
}

```

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

Ans.

```
> db.post.update({"post_id":1},{ $push:{"comments":{"comment_id":3,"message":"this is custom comment","timestamp":ISODate()}}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

```
> db.post.find({"post_id":1}).pretty()
{
  "_id" : ObjectId("5cb8491eaad633998088b81a"),
  "post_id" : 1,
  "title" : "sunt aut facere repellat provident occaecati excepturi optio reprehenderit",
  "description" : "quia et suscipit\nsuscipit recusandae consequuntur expedita et cum\nreprehenderit molestiae ut ut quas totam\nnostrum rerum est autem sunt rem eveniet architecto",
  "posted_by" : 1,
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "laudantium enim quasi est quidem magnam voluptate ipsam eos\ntempora quo necessitatibus\ndolor quam autem quasi\nreiciendis et nam sapiente accusantium",
      "timestamp" : ISODate("2019-04-18T10:44:54.655Z")
    },
    {
      "comment_id" : 2,
      "message" : "this is custom comment",
      "timestamp" : ISODate("2019-04-18T11:25:47.692Z")
    },
    {
      "comment_id" : 2,
      "message" : "this is custom comment",
      "timestamp" : ISODate("2019-04-18T11:27:31.170Z")
    },
    {
      "comment_id" : 3,
      "message" : "this is custom comment",
      "timestamp" : ISODate("2019-04-18T11:29:31.325Z")
    }
  ]
}
```

5. Write a query to update description of a post.

Ans.

```
> db.post.update({"post_id":1},{ $set:{"description":"this description is updated just now"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find({"post_id":1}).pretty()
{
  "_id" : ObjectId("5cb8491eaad633998088b81a"),
  "post_id" : 1,
  "title" : "sunt aut facere repellat provident occaecati exceptu
ri optio reprehenderit",
  "description" : "this description is updated just now",
  "posted_by" : 1,
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "laudantium enim quasi est quidem m
agnam voluptate ipsam eos\\ntempora quo necessitatibus\\ndolor quam aut
em quasi\\nreiciendis et nam sapiente accusantium",
      "timestamp" : ISODate("2019-04-18T10:44:54.655Z
")
    },
    {
      "comment_id" : 2,
      "message" : "this is custom comment"
```


6. Write query to update comment message

Ans.

```
> db.post.update({"post_id":1,"comments.comment_id":4},{ $set:{"comments.$.message":"message is updating as per demand of question"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

```
> db.post.find({"post_id":1}).pretty()
{
  "_id" : ObjectId("5cb8491eaad633998088b81a"),
  "post_id" : 1,
  "title" : "sunt aut facere repellat provident occaecati exceptu
ri optio reprehenderit",
  "description" : "this description is updated just now",
  "posted_by" : 1,
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "laudantium enim quasi est quidem m
agnam voluptate ipsam eos\\ntempora quo necessitatibus\\ndolor quam aut
em quasi\\nreiciendis et nam sapiente accusantium",
      "timestamp" : ISODate("2019-04-18T10:44:54.655Z
")
    },
    {
      "comment_id" : 4,
      "message" : "message is updating as per demand
of question",
      "timestamp" : ISODate("2019-04-18T11:25:47.692Z
")
    },
    {
      "comment_id" : 2,
      "message" : "this is custom comment",
      "timestamp" : ISODate("2019-04-18T11:27:31.170Z
")
    },
    {
      "comment_id" : 3,
      "message" : "this is custom comment",
      "timestamp" : ISODate("2019-04-18T11:29:31.325Z
")
    }
  ]
}
```

7. Write query to remove a comment

Ans.

```
> db.post.update({"post_id":2},{ $pull:{"comments":{"comment_id":1}}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

> db.post.find({"post_id":2}).pretty()
{
  "_id" : ObjectId("5cb84a35aad633998088b81b"),
  "post_id" : 2,
  "title" : "sunt aut facere repellat provident occaecati exceptu
ri optio reprehenderit",
  "description" : "quia et suscipit\nsuscipit recusandae consequ
untur expedita et cum\nreprehenderit molestiae ut ut quas totam\nnostrum
rerum est autem sunt rem eveniet architecto",
  "posted_by" : 3,
  "comments" : [
    {
      "comment_id" : 2,
      "message" : "lorem ipsum uasi est quidem magnam
voluptate ipsam eos\nntempora quo necessitatibus\ndolor quam autem qu
asi\nreiciendis et nam sapiente accusantium",
      "timestamp" : ISODate("2019-04-18T10:49:10.475Z
")
    }
  ]
}
```