

1. Create a Database named 'MYWall'

```
> show dbs
admin    0.000GB
config  0.000GB
local    0.000GB
> use MYWALL
switched to db MYWALL
> _
```

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

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

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

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```
> db.post.insert({
...   post_id:001,
...   title:"title 1",
...   description:"description for title 1",
...   posted_by:"Kunark",
...   comments:[
...     {
...       comment_id:001,
...       message:"comment 1 in title 1",
...       timestamp:Date()
...     },
...     {
...       comment_id:002,
...       message:"comment 2 in title 1",
...       timestamp:Date()
...     },
...     {
...       comment_id:003,
...       message:"comment 3 in title 1",
...       timestamp:Date()
...     }
...   ],
...   created_at:Date()
... })
WriteResult({ "nInserted" : 1 })
> db.post.insert({
...   post_id:002,
...   title:"title 2",
...   description:"description for title 2",
...   posted_by:"Kunark",
...   comments:[
...     {
...       comment_id:001,
...       message:"comment 1 in title 2",
...       timestamp:Date()
...     },
...     {
...       comment_id:002,
...       message:"comment 2 in title 2",
...       timestamp:Date()
...     },
...     {
...       comment_id:003,
...       message:"comment 3 in title 2",
...       timestamp:Date()
...     }
...   ],
...   created_at:Date()
... })
WriteResult({ "nInserted" : 1 })
```

```

> db.post.insert({
...   post_id:003,
...   title:"title 3",
...   description:"description for title 3",
...   posted_by:"Kunark",
...   comments:[
...     {
...       comment_id:003,
...       message:"comment 1 in title 3",
...       timestamp:Date()
...     },
...     {
...       comment_id:002,
...       message:"comment 2 in title 3",
...       timestamp:Date()
...     },
...     {
...       comment_id:003,
...       message:"comment 3 in title 3",
...       timestamp:Date()
...     }
...   ],
...   created_at:Date()
... })
WriteResult({ "nInserted" : 1 })
> db.post.insert({
...   post_id:004,
...   title:"title 4",
...   description:"description for title 4",
...   posted_by:"Kunark",
...   comments:[
...     {
...       comment_id:001,
...       message:"comment 1 in title 4",
...       timestamp:Date()
...     },
...     {
...       comment_id:002,
...       message:"comment 2 in title 4",
...       timestamp:Date()
...     },
...     {
...       comment_id:003,
...       message:"comment 3 in title 4",
...       timestamp:Date()
...     }
...   ],
...   created_at:Date()
... })
WriteResult({ "nInserted" : 1 })

```

```
> db.post.insert({
...   post_id:005,
...   title:"title 5",
...   description:"description for title 5",
...   posted_by:"Kunark",
...   comments:[
...     {
...       comment_id:001,
...       message:"comment 1 in title 5",
...       timestamp:Date()
...     },
...     {
...       comment_id:002,
...       message:"comment 2 in title 5",
...       timestamp:Date()
...     },
...     {
...       comment_id:003,
...       message:"comment 3 in title 5",
...       timestamp:Date()
...     }
...   ],
...   created_at:Date()
... })
WriteResult({ "nInserted" : 1 })
>
```

```

> db.post.find().pretty()
{
  "_id" : ObjectId("5cc022f5c9c5782e9cff2ef2"),
  "post_id" : 1,
  "title" : "title 1",
  "description" : "description for title 1",
  "posted_by" : "Kunark",
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "comment 1 in title 1",
      "timestamp" : "Wed Apr 24 2019 14:18:53 GMT+0530 (IST)"
    },
    {
      "comment_id" : 2,
      "message" : "comment 2 in title 1",
      "timestamp" : "Wed Apr 24 2019 14:18:53 GMT+0530 (IST)"
    },
    {
      "comment_id" : 3,
      "message" : "comment 3 in title 1",
      "timestamp" : "Wed Apr 24 2019 14:18:53 GMT+0530 (IST)"
    }
  ],
  "created_at" : "Wed Apr 24 2019 14:18:53 GMT+0530 (IST)"
}
{
  "_id" : ObjectId("5cc02315c9c5782e9cff2ef3"),
  "post_id" : 2,
  "title" : "title 2",
  "description" : "description for title 2",
  "posted_by" : "Kunark",
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "comment 1 in title 2",
      "timestamp" : "Wed Apr 24 2019 14:19:25 GMT+0530 (IST)"
    },
    {
      "comment_id" : 2,
      "message" : "comment 2 in title 2",
      "timestamp" : "Wed Apr 24 2019 14:19:25 GMT+0530 (IST)"
    },
    {
      "comment_id" : 3,
      "message" : "comment 3 in title 2",
      "timestamp" : "Wed Apr 24 2019 14:19:25 GMT+0530 (IST)"
    }
  ],
  "created_at" : "Wed Apr 24 2019 14:19:25 GMT+0530 (IST)"
}

```



```

{
  "_id" : ObjectId("5cc0232bc9c5782e9cff2ef4"),
  "post_id" : 3,
  "title" : "title 3",
  "description" : "description for title 3",
  "posted_by" : "Kunark",
  "comments" : [
    {
      "comment_id" : 3,
      "message" : "comment 1 in title 3",
      "timestamp" : "Wed Apr 24 2019 14:19:47 GMT+0530 (IST)"
    },
    {
      "comment_id" : 2,
      "message" : "comment 2 in title 3",
      "timestamp" : "Wed Apr 24 2019 14:19:47 GMT+0530 (IST)"
    },
    {
      "comment_id" : 3,
      "message" : "comment 3 in title 3",
      "timestamp" : "Wed Apr 24 2019 14:19:47 GMT+0530 (IST)"
    }
  ],
  "created_at" : "Wed Apr 24 2019 14:19:47 GMT+0530 (IST)"
}
{
  "_id" : ObjectId("5cc02340c9c5782e9cff2ef5"),
  "post_id" : 4,
  "title" : "title 4",
  "description" : "description for title 4",
  "posted_by" : "Kunark",
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "comment 1 in title 4",
      "timestamp" : "Wed Apr 24 2019 14:20:08 GMT+0530 (IST)"
    },
    {
      "comment_id" : 2,
      "message" : "comment 2 in title 4",
      "timestamp" : "Wed Apr 24 2019 14:20:08 GMT+0530 (IST)"
    },
    {
      "comment_id" : 3,
      "message" : "comment 3 in title 4",
      "timestamp" : "Wed Apr 24 2019 14:20:08 GMT+0530 (IST)"
    }
  ],
  "created_at" : "Wed Apr 24 2019 14:20:08 GMT+0530 (IST)"
}

```

```
{
  "_id" : ObjectId("5cc02353c9c5782e9cff2ef6"),
  "post_id" : 5,
  "title" : "title 5",
  "description" : "description for title 5",
  "posted_by" : "Kunark",
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "comment 1 in title 5",
      "timestamp" : "Wed Apr 24 2019 14:20:27 GMT+0530 (IST)"
    },
    {
      "comment_id" : 2,
      "message" : "comment 2 in title 5",
      "timestamp" : "Wed Apr 24 2019 14:20:27 GMT+0530 (IST)"
    },
    {
      "comment_id" : 3,
      "message" : "comment 3 in title 5",
      "timestamp" : "Wed Apr 24 2019 14:20:27 GMT+0530 (IST)"
    }
  ],
  "created_at" : "Wed Apr 24 2019 14:20:27 GMT+0530 (IST)"
}
> _
```

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

```
> db.post.update({post_id:2}, {$push:{comments:{comment_id:004,message:"comment 4 in title 2", timestamp:Date()}}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.findOne({post_id:2})
{
  "_id" : ObjectId("5cc02315c9c5782e9cff2ef3"),
  "post_id" : 2,
  "title" : "title 2",
  "description" : "description for title 2",
  "posted_by" : "Kunark",
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "comment 1 in title 2",
      "timestamp" : "Wed Apr 24 2019 14:19:25 GMT+0530 (IST)"
    },
    {
      "comment_id" : 2,
      "message" : "comment 2 in title 2",
      "timestamp" : "Wed Apr 24 2019 14:19:25 GMT+0530 (IST)"
    },
    {
      "comment_id" : 3,
      "message" : "comment 3 in title 2",
      "timestamp" : "Wed Apr 24 2019 14:19:25 GMT+0530 (IST)"
    },
    {
      "comment_id" : 4,
      "message" : "comment 4 in title 2",
      "timestamp" : "Wed Apr 24 2019 14:37:56 GMT+0530 (IST)"
    }
  ],
  "created_at" : "Wed Apr 24 2019 14:19:25 GMT+0530 (IST)"
}
> _
```


5. Write a query to update description of a post

```
> db.post.update({post_id:1},{ $set: {description:"description changed"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.findOne({post_id:1})
{
  "_id" : ObjectId("5cc022f5c9c5782e9cff2ef2"),
  "post_id" : 1,
  "title" : "title 1",
  "description" : "description changed",
  "posted_by" : "Kunark",
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "comment 1 in title 1",
      "timestamp" : "Wed Apr 24 2019 14:18:53 GMT+0530 (IST)"
    },
    {
      "comment_id" : 2,
      "message" : "comment 2 in title 1",
      "timestamp" : "Wed Apr 24 2019 14:18:53 GMT+0530 (IST)"
    },
    {
      "comment_id" : 3,
      "message" : "comment 3 in title 1",
      "timestamp" : "Wed Apr 24 2019 14:18:53 GMT+0530 (IST)"
    }
  ],
  "created_at" : "Wed Apr 24 2019 14:18:53 GMT+0530 (IST)"
}
> _
```

6. Write query to update comment message

```
> db.post.update({post_id:3, "comments.comment_id":2}, {$set:{"comments.$.message":"message has been changed by me because of questions requirement"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.findOne({post_id:3})
{
  "_id" : ObjectId("5cc0232bc9c5782e9cff2ef4"),
  "post_id" : 3,
  "title" : "title 3",
  "description" : "description for title 3",
  "posted_by" : "Kunark",
  "comments" : [
    {
      "comment_id" : 3,
      "message" : "comment 1 in title 3",
      "timestamp" : "Wed Apr 24 2019 14:19:47 GMT+0530 (IST)"
    },
    {
      "comment_id" : 2,
      "message" : "message has been changed by me because of questions requirement",
      "timestamp" : "Wed Apr 24 2019 14:19:47 GMT+0530 (IST)"
    },
    {
      "comment_id" : 3,
      "message" : "comment 3 in title 3",
      "timestamp" : "Wed Apr 24 2019 14:19:47 GMT+0530 (IST)"
    }
  ],
  "created_at" : "Wed Apr 24 2019 14:19:47 GMT+0530 (IST)"
}
```

7. Write query to remove a comment

```
> db.post.update( { "post_id": 4 }, { $pop: { "comments": 1 } } )
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.findOne({post_id:4})
{
  "_id" : ObjectId("5cc02340c9c5782e9cff2ef5"),
  "post_id" : 4,
  "title" : "title 4",
  "description" : "description for title 4",
  "posted_by" : "Kunark",
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "comment 1 in title 4",
      "timestamp" : "Wed Apr 24 2019 14:20:08 GMT+0530 (IST)"
    },
    {
      "comment_id" : 2,
      "message" : "comment 2 in title 4",
      "timestamp" : "Wed Apr 24 2019 14:20:08 GMT+0530 (IST)"
    }
  ],
  "created_at" : "Wed Apr 24 2019 14:20:08 GMT+0530 (IST)"
}
> _
```