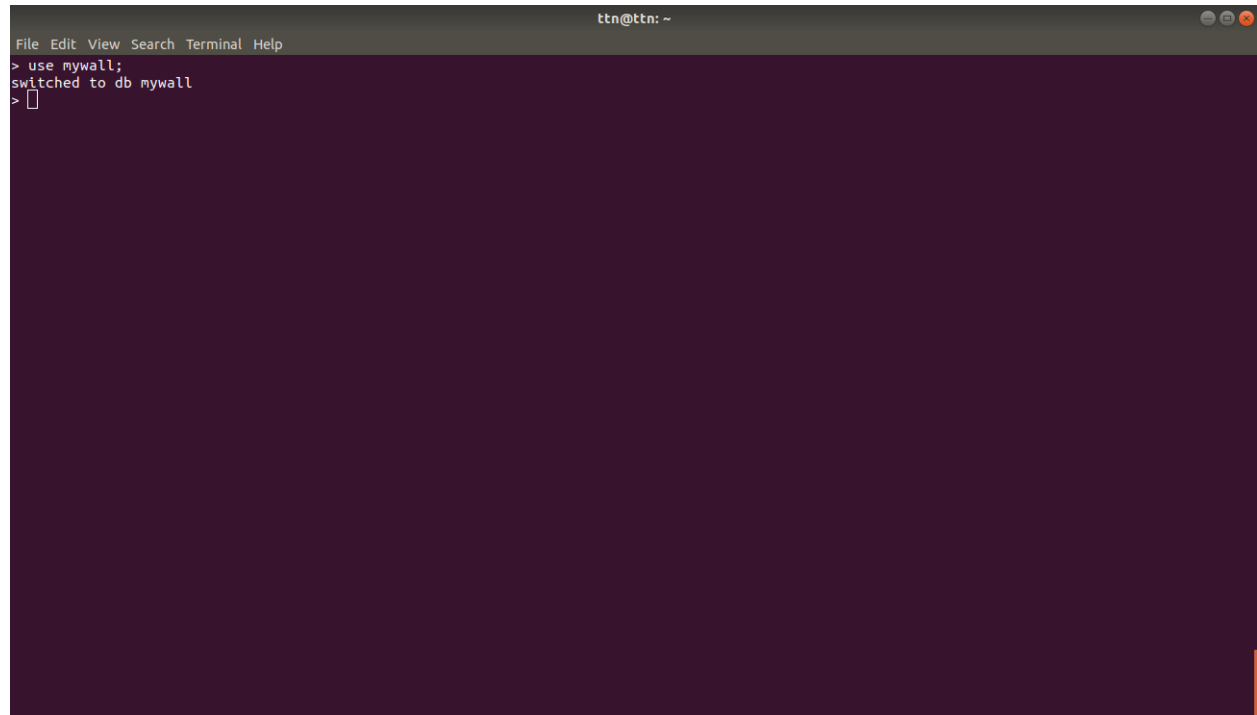


# Assignment-MongoDB

## 1. Create a Database named 'MYWall'

> use mywall;

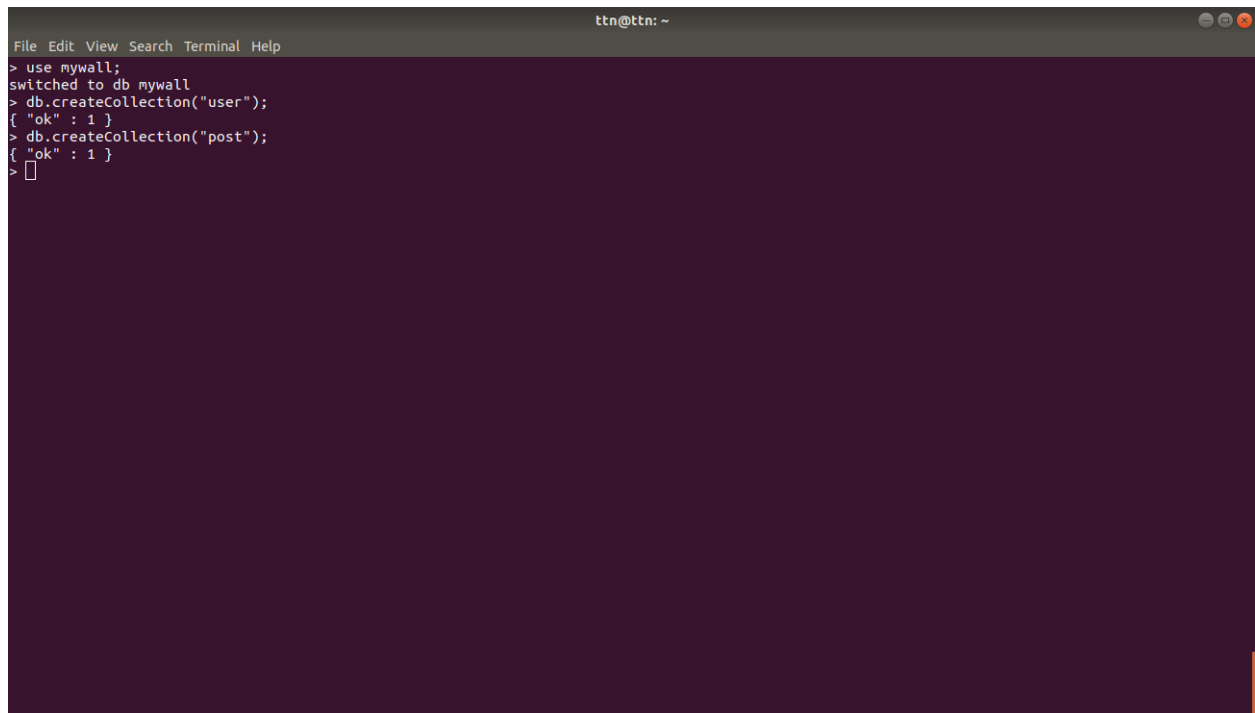
A screenshot of a terminal window with a dark purple background. The window title bar shows 'ttn@ttn: ~' and standard window control buttons. The menu bar includes 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The terminal content shows the command '> use mywall;' followed by the response 'switched to db mywall' and a prompt '> ' with a cursor.

```
ttn@ttn: ~  
File Edit View Search Terminal Help  
> use mywall;  
switched to db mywall  
> 
```

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

```
> db.createCollection("user");
```

```
> db.createCollection("post");
```

A terminal window with a dark purple background and light green text. The window title is 'ttn@ttn: ~'. The menu bar shows 'File Edit View Search Terminal Help'. The terminal content shows the following commands and output:

```
> use mywall;
switched to db mywall
> db.createCollection("user");
{ "ok" : 1 }
> db.createCollection("post");
{ "ok" : 1 }
>
```

3. Insert some post related information like post\_id, title, description , posted\_by, comments, created\_at etc...

4. Comments should be an array of objects which has comment\_id, message, timestamp

```
>db.post.insert({
    "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,
"created_at" : "Tue Apr 16 2019 14:20:13 GMT+0530 (IST)",
"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"
  }
],
},
{
  "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 rerum est autem sunt rem eveniet
architecto",
  "posted_by" : 2,
  "created_at" : "Tue Apr 16 2019 14:21:33 GMT+0530 (IST)",
  "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" : "Tue Apr 16 2019 15:24:56 GMT+0530 (IST)"
    }
  ]
},
{
  "post_id" : 3,
  "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" : 3,  
  "created_at" : "Tue Apr 16 2019 14:22:00 GMT+0530 (IST)",  
  "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" : "Tue Apr 16 2019 15:25:01 GMT+0530 (IST)"  
    },  
    {  
      "comment_id" : 2,  
      "message" : "hello evreyone",  
      "timestamp" : "Tue Apr 16 2019 15:38:33 GMT+0530 (IST)"  
    }  
  ]  
})
```

```

ttn@ttn: ~
File Edit View Search Terminal Help
> db.post.insert([
... "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 rer
um est autem sunt rem eveniet architecto",
... "posted_by" : 1,
... "created_at" : "Tue Apr 16 2019 14:20:13 GMT+0530 (IST)",
... "comments" : [
... {
... "comment_id" : 1,
... "message" : "laudantium enim quasi est quidem magnam voluptate ipsam eos\ntempora quo necessitatibus\ndolor quam autem quasi\nreiciendi
s et nam sapiente accusantium"
... }
... ],
... },
... {
... "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 rer
um est autem sunt rem eveniet architecto",
... "posted_by" : 2,
... "created_at" : "Tue Apr 16 2019 14:21:33 GMT+0530 (IST)",
... "comments" : [
... {
... "comment_id" : 1,
... "message" : "laudantium enim quasi est quidem magnam voluptate ipsam eos\ntempora quo necessitatibus\ndolor quam autem quasi\nreiciendi
s et nam sapiente accusantium",
... "timestamp" : "Tue Apr 16 2019 15:24:56 GMT+0530 (IST)"
... }
... ],
... },
... {
... "post_id" : 3,
... "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 rer
um est autem sunt rem eveniet architecto",
... "posted_by" : 3,
... "created_at" : "Tue Apr 16 2019 14:22:00 GMT+0530 (IST)",

```

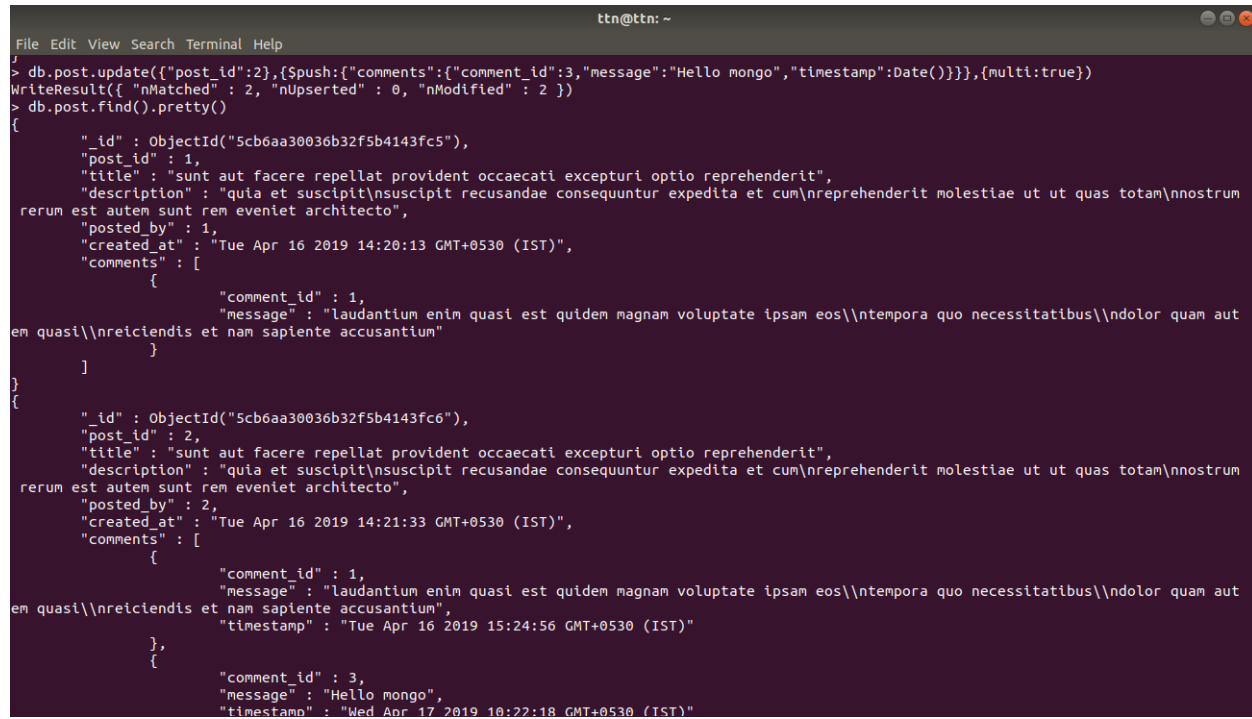
```

ttn@ttn: ~
File Edit View Search Terminal Help
... "message" : "laudantium enim quasi est quidem magnam voluptate ipsam eos\ntempora quo necessitatibus\ndolor quam autem quasi\nreiciendi
s et nam sapiente accusantium",
... "timestamp" : "Tue Apr 16 2019 15:24:56 GMT+0530 (IST)"
... }
... ],
... },
... {
... "post_id" : 3,
... "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 rer
um est autem sunt rem eveniet architecto",
... "posted_by" : 3,
... "created_at" : "Tue Apr 16 2019 14:22:00 GMT+0530 (IST)",
... "comments" : [
... {
... "comment_id" : 1,
... "message" : "laudantium enim quasi est quidem magnam voluptate ipsam eos\ntempora quo necessitatibus\ndolor quam autem quasi\nreiciendi
s et nam sapiente accusantium",
... "timestamp" : "Tue Apr 16 2019 15:25:01 GMT+0530 (IST)"
... },
... {
... "comment_id" : 2,
... "message" : "hello evreyone",
... "timestamp" : "Tue Apr 16 2019 15:38:33 GMT+0530 (IST)"
... }
... ]
... }]]
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 3,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})
>

```

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

```
> db.post.update({"post_id":2},{ $push:{"comments":{"comment_id":3,"message":"Hello mongo","timestamp":Date()}}},{multi:true})
```

A terminal window titled 'ttn@ttn: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows a MongoDB update command being executed, followed by a find command to display the results. The output shows two documents from the 'post' collection. The first document (post\_id: 1) has one comment (comment\_id: 1). The second document (post\_id: 2) has two comments: comment\_id: 2 and comment\_id: 3. The third comment has a timestamp of 'Tue Apr 16 2019 15:24:56 GMT+0530 (IST)'.

```
File Edit View Search Terminal Help
> db.post.update({"post_id":2},{ $push:{"comments":{"comment_id":3,"message":"Hello mongo","timestamp":Date()}}},{multi:true})
WriteResult({ "nMatched" : 2, "nUpserted" : 0, "nModified" : 2 })
> db.post.find().pretty()
{
  "_id" : ObjectId("5cb6aa30036b32f5b4143fc5"),
  "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,
  "created_at" : "Tue Apr 16 2019 14:20:13 GMT+0530 (IST)",
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "laudantium enim quasi est quidem magnam voluptate ipsam eos\ntempora quo necessitatibus\ndolor quam aut
em quasi\nreiciendis et nam sapiente accusantium"
    }
  ]
}
{
  "_id" : ObjectId("5cb6aa30036b32f5b4143fc6"),
  "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
rerum est autem sunt rem eveniet architecto",
  "posted_by" : 2,
  "created_at" : "Tue Apr 16 2019 14:21:33 GMT+0530 (IST)",
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "laudantium enim quasi est quidem magnam voluptate ipsam eos\ntempora quo necessitatibus\ndolor quam aut
em quasi\nreiciendis et nam sapiente accusantium",
      "timestamp" : "Tue Apr 16 2019 15:24:56 GMT+0530 (IST)"
    },
    {
      "comment_id" : 3,
      "message" : "Hello mongo",
      "timestamp" : "Wed Apr 17 2019 10:22:18 GMT+0530 (IST)"
    }
  ]
}
```

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

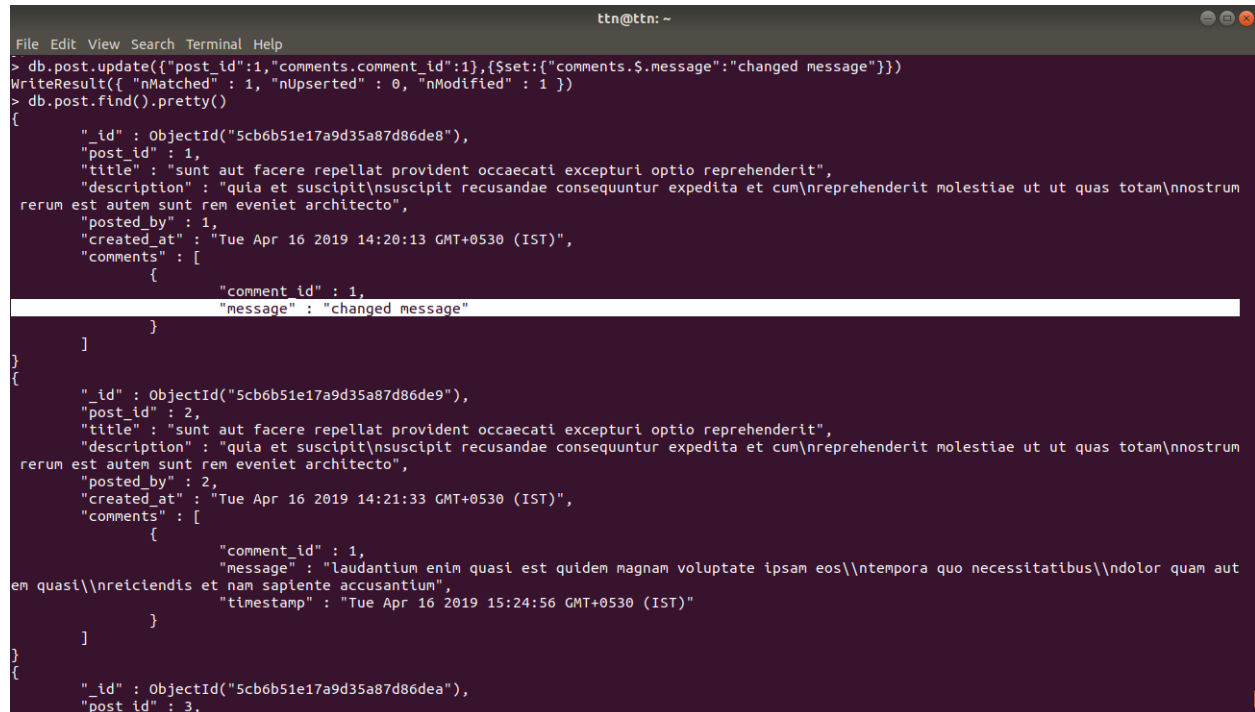
```
>db.post.update({"post_id":3},{ $set:{"description":"changed description"}})
```

```
ttn@ttn: ~
File Edit View Search Terminal Help
> db.post.update({"post_id":3},{ $set:{"description":"changed description"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find().pretty()
{
  "_id" : ObjectId("5cb6b51e17a9d35a87d86de8"),
  "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,
  "created_at" : "Tue Apr 16 2019 14:20:13 GMT+0530 (IST)",
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "laudantium enim quasi est quidem magnam voluptate ipsam eos\nntempora quo necessitatibus\ndolor quam aut
em quasi\nreiciendis et nam sapiente accusantium"
    }
  ]
}
{
  "_id" : ObjectId("5cb6b51e17a9d35a87d86de9"),
  "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
rerum est autem sunt rem eveniet architecto",
  "posted_by" : 2,
  "created_at" : "Tue Apr 16 2019 14:21:33 GMT+0530 (IST)",
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "laudantium enim quasi est quidem magnam voluptate ipsam eos\nntempora quo necessitatibus\ndolor quam aut
em quasi\nreiciendis et nam sapiente accusantium",
      "timestamp" : "Tue Apr 16 2019 15:24:56 GMT+0530 (IST)"
    }
  ]
}
{
  "_id" : ObjectId("5cb6b51e17a9d35a87d86dea"),
```

```
ttn@ttn: ~
File Edit View Search Terminal Help
  "id" : ObjectId("5cb6b51e17a9d35a87d86de9"),
  "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
rerum est autem sunt rem eveniet architecto",
  "posted_by" : 2,
  "created_at" : "Tue Apr 16 2019 14:21:33 GMT+0530 (IST)",
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "laudantium enim quasi est quidem magnam voluptate ipsam eos\nntempora quo necessitatibus\ndolor quam aut
em quasi\nreiciendis et nam sapiente accusantium",
      "timestamp" : "Tue Apr 16 2019 15:24:56 GMT+0530 (IST)"
    }
  ]
}
{
  "_id" : ObjectId("5cb6b51e17a9d35a87d86dea"),
  "post_id" : 3,
  "title" : "sunt aut facere repellat provident occaecati excepturi optio reprehenderit",
  "description" : "changed description",
  "posted_by" : 3,
  "created_at" : "Tue Apr 16 2019 14:22:00 GMT+0530 (IST)",
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "laudantium enim quasi est quidem magnam voluptate ipsam eos\nntempora quo necessitatibus\ndolor quam aut
em quasi\nreiciendis et nam sapiente accusantium",
      "timestamp" : "Tue Apr 16 2019 15:25:01 GMT+0530 (IST)"
    },
    {
      "comment_id" : 2,
      "message" : "hello evreyone",
      "timestamp" : "Tue Apr 16 2019 15:38:33 GMT+0530 (IST)"
    }
  ]
}
> □
```

## 7. Write query to update comment message

```
> db.post.update({"post_id":1,"comments.comment_id":1},{ $set:{"comments.$.message":"changed message"}})
```

A terminal window titled 'ttn@ttn: ~' showing MongoDB commands and their output. The first command updates a comment's message. The second command finds all posts, displaying their details and comments. The output shows three posts, with the first post's comment message updated to 'changed message'.

```
File Edit View Search Terminal Help
> db.post.update({"post_id":1,"comments.comment_id":1},{ $set:{"comments.$.message":"changed message"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find().pretty()
{
  "_id" : ObjectId("5cb6b51e17a9d35a87d86de8"),
  "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,
  "created_at" : "Tue Apr 16 2019 14:20:13 GMT+0530 (IST)",
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "changed message"
    }
  ]
}
{
  "_id" : ObjectId("5cb6b51e17a9d35a87d86de9"),
  "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 rerum est autem sunt rem eveniet architecto",
  "posted_by" : 2,
  "created_at" : "Tue Apr 16 2019 14:21:33 GMT+0530 (IST)",
  "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" : "Tue Apr 16 2019 15:24:56 GMT+0530 (IST)"
    }
  ]
}
{
  "_id" : ObjectId("5cb6b51e17a9d35a87d86dea"),
  "post_id" : 3,
```

## 8. Write query to remove a comment

```
> db.post.update({"post_id":1},{ $pull:{"comments":{"comment_id":1}}})
```



```
ttn@ttn: ~
File Edit View Search Terminal Tabs Help
ttn@ttn: ~
ttn@ttn: ~
> db.post.update({"post_id":1},{ $pull:{ "comments": {"comment_id":1} }})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find().pretty()
{
  "_id" : ObjectId("5cb6b51e17a9d35a87d86de8"),
  "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,
  "created_at" : "Tue Apr 16 2019 14:20:13 GMT+0530 (IST)",
  "comments" : [ ]
}
{
  "_id" : ObjectId("5cb6b51e17a9d35a87d86de9"),
  "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
rerum est autem sunt rem eveniet architecto",
  "posted_by" : 2,
  "created_at" : "Tue Apr 16 2019 14:21:33 GMT+0530 (IST)",
  "comments" : [
    {
      "comment_id" : 1,
      "message" : "laudantium enim quasi est quidem magnam voluptate ipsam eos\\ntempora quo necessitatibus\\ndolor quam aut
em quasi\\nreiciendis et nam sapiente accusantium",
      "timestamp" : "Tue Apr 16 2019 15:24:56 GMT+0530 (IST)"
    }
  ]
}
{
  "_id" : ObjectId("5cb6b51e17a9d35a87d86dea"),
  "post_id" : 3,
  "title" : "sunt aut facere repellat provident occaecati excepturi optio reprehenderit",
  "description" : "changed description",
  "posted_by" : 3,
  "created_at" : "Tue Apr 16 2019 14:22:00 GMT+0530 (IST)"
}
```