

1. Create a Database named 'MYWall'
2. Create two collections named 'user' and 'post'.

```
> show dbs
admin    0.000GB
config  0.000GB
local    0.000GB
> use MYWALL
switched to db MYWALL
> db.createCollection("user")
{ "ok" : 1 }
> db.createCollection("post")
{ "ok" : 1 }
> show collections
post
user
> |
```

```
> db.user.insertMany([{user_id :1 , name : 'taman gupta', email:'taman@gmail.com'}, {user_id:2,name : 'Mayank' , email : 'mayank@gmail.com'}, {user_id: 3 , name: 'akash sharma', email : 'akash@email.com'}])
2020-05-04T17:24:28.917+0530 E QUERY [js] uncaught exception: SyntaxError: missing } after property list :
@ (shell):1:158
> db.user.insertMany([{user_id :1 , name : 'taman gupta', email:'taman@gmail.com'}, {user_id:2,name : 'Mayank' , email : 'mayank@gmail.com'}, {user_id: 3 , name: 'akash sharma', email : 'akash@email.com'}])
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("5eb0028819146298876b72dc"),
    ObjectId("5eb0028819146298876b72dd"),
    ObjectId("5eb0028819146298876b72de")
  ]
}
> |
```

```
> db.user.find();
{ "_id" : ObjectId("5eb0028819146298876b72dc"), "user_id" : 1, "name" : "taman gupta", "email" : "taman@gmail.com" }
{ "_id" : ObjectId("5eb0028819146298876b72dd"), "user_id" : 2, "name" : "Mayank", "email" : "mayank@gmail.com" }
{ "_id" : ObjectId("5eb0028819146298876b72de"), "user_id" : 3, "name" : "akash sharma", "email" : "akash@email.com" }
> |
```

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.insertMany([
  {user_id : 2, title: 'how to motivate yourself',description:'Some days you wake up motivated and ready to go
  . And some days things feel heavy as you arise and it is hard to get going and find that inner drive.',posted by:'mayank ',commen
  ts: [{comment_id:201,message: 'some comment from some random user', timestamp : new Date()}],created_at: new Date() },{user_id :
  3, title: 'how to meditate',description:'Some days things feel heavy as you arise and it is hard to get going and find that inner
  drive.',posted by:'akash',comments: [{comment_id:301,message: 'some comment from some random user', timestamp : new Date()}],cre
  ated_at: new Date() })
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("5eaff80819146298876b72d9"),
    ObjectId("5eaff80819146298876b72da")
  ]
}
> db.post.find();
{ "_id" : ObjectId("5eaff71f19146298876b72d6"), "user_id" : 1, "title" : "how to fight with covid-19", "description" : "Fully eng
aged in the ongoing COVID-19 pandemic, GOARN partners are commemorating the anniversary by sharing their COVID-19 response activi
ties internationally", "posted_by" : "taman gupta", "comments" : [ { "comment_id" : 101, "message" : "some comment from user", "t
imestamp" : ISODate("2020-05-04T11:06:07.396Z") } ], "created_at" : ISODate("2020-05-04T11:06:07.396Z") }
{ "_id" : ObjectId("5eaff80819146298876b72d9"), "user_id" : 2, "title" : "how to motivate yourself", "description" : "Some days yo
u wake up motivated and ready to go. And some days things feel heavy as you arise and it is hard to get going and find that inner
drive.", "posted_by" : "mayank ", "comments" : [ { "comment_id" : 201, "message" : "some comment from some random user", "timest
amp" : ISODate("2020-05-04T11:10:00.537Z") } ], "created_at" : ISODate("2020-05-04T11:10:00.537Z") }
{ "_id" : ObjectId("5eaff80819146298876b72da"), "user_id" : 3, "title" : "how to meditate", "description" : "Some days things fee
l heavy as you arise and it is hard to get going and find that inner drive.", "posted_by" : "akash", "comments" : [ { "comment_id
" : 301, "message" : "some comment from some random user", "timestamp" : ISODate("2020-05-04T11:10:00.537Z") } ], "created_at" :
ISODate("2020-05-04T11:10:00.537Z") }
> |

```

```

> show collections
post
user
> db.user.insertOne({user_id : 1, title: 'how to fight with covid-19',description:'Fully engaged in the ongoing COVID-19 pandemic
, GOARN partners are commemorating the anniversary by sharing their COVID-19 response activities internationally',posted_by:'tama
n gupta',comments: [{comment_id:101,message: 'some comment from user', timestamp : new Date()}],created_at: new Date() })
{
  "acknowledged" : true,
  "insertedId" : ObjectId("5eaff35219146298876b72d4")
}
> db.user.find().pretty();
{
  "_id" : ObjectId("5eaff35219146298876b72d4"),
  "user_id" : 1,
  "title" : "how to fight with covid-19",
  "description" : "Fully engaged in the ongoing COVID-19 pandemic, GOARN partners are commemorating the anniversary by shar
ing their COVID-19 response activities internationally",
  "posted_by" : "taman gupta",
  "comments" : [
    {
      "comment_id" : 101,
      "message" : "some comment from user",
      "timestamp" : ISODate("2020-05-04T10:49:54.959Z")
    }
  ],
  "created_at" : ISODate("2020-05-04T10:49:54.959Z")
}
> |

```

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

```

> db.post.update({user_id : 1},{ $push:{comments:{comment_id : 102, message : 'comment inserted by new user', timestamp : new Date
()}}});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find({user_id : 1}).pretty();
{
  "_id" : ObjectId("5eaff71f19146298876b72d6"),
  "user_id" : 1,
  "title" : "how to fight with covid-19",
  "description" : "Fully engaged in the ongoing COVID-19 pandemic, GOARN partners are commemorating the anniversary by shar
ing their COVID-19 response activities internationally",
  "posted by" : "taman gupta",
  "comments" : [
    {
      "comment_id" : 101,
      "message" : "some comment from user",
      "timestamp" : ISODate("2020-05-04T11:06:07.396Z")
    },
    {
      "comment_id" : 102,
      "message" : "comment inserted by new user",
      "timestamp" : ISODate("2020-05-04T11:16:36.786Z")
    }
  ],
  "created_at" : ISODate("2020-05-04T11:06:07.396Z")
}
> |

```

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

Before Updation --

```

db.post.find({user_id : 2}).pretty();

{
  "_id" : ObjectId("5eaff80819146298876b72d9"),
  "user_id" : 2,
  "title" : "how to motivate yourself",
  "description" : "Some days you wake up motivated and ready to go. And some days things feel heavy as you arise and it is
ard to get going and find that inner drive.",
  "posted by" : "mayank ",
  "comments" : [
    {
      "comment_id" : 201,
      "message" : "some comment from some random user",
      "timestamp" : ISODate("2020-05-04T11:10:00.537Z")
    }
  ],
  "created_at" : ISODate("2020-05-04T11:10:00.537Z")
}
|

```

Query Updation---

```

> db.post.update({user_id : 2},{ $set:{description: 'updated description is updated by new user'}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find({user_id : 2}).pretty()
{
  "_id" : ObjectId("5eaff80819146298876b72d9"),
  "user_id" : 2,
  "title" : "how to motivate yourself",
  "description" : "updated description is updated by new user",
  "posted_by" : "mayank ",
  "comments" : [
    {
      "comment_id" : 201,
      "message" : "some comment from some random user",
      "timestamp" : ISODate("2020-05-04T11:10:00.537Z")
    }
  ],
  "created_at" : ISODate("2020-05-04T11:10:00.537Z")
}
> |

```

## 7. Write query to update comment message.

```

> db.post.update({user_id : 101,"comments.comment_id":102},{ $set: {"comments.$.message": "user updated his comment successfully"}
})
WriteResult({ "nMatched" : 0, "nUpserted" : 0, "nModified" : 0 })
> db.post.update({user_id :1,"comments.comment_id":102},{ $set: {"comments.$.message": "user updated his comment successfully"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find({user_id:1}).pretty();
{
  "_id" : ObjectId("5eaff71f19146298876b72d6"),
  "user_id" : 1,
  "title" : "how to fight with covid-19",
  "description" : "Fully engaged in the ongoing COVID-19 pandemic, GOARN partners are commemorating the anniversary by shar
ing their COVID-19 response activities internationally",
  "posted by" : "taman gupta",
  "comments" : [
    {
      "comment_id" : 101,
      "message" : "some comment from user",
      "timestamp" : ISODate("2020-05-04T11:06:07.396Z")
    },
    {
      "comment_id" : 102,
      "message" : "user updated his comment successfully",
      "timestamp" : ISODate("2020-05-04T11:16:36.786Z")
    }
  ],
  "created_at" : ISODate("2020-05-04T11:06:07.396Z")
}
> |

```

## 8. Write query to remove a comment.



```
> db.post.update({user_id:1},{pull:{comments:{comment_id:102}}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find({user_id:1}).pretty();
{
  "_id" : ObjectId("5eb0006019146298876b72db"),
  "user_id" : 1,
  "title" : "how to fight with covid-19",
  "description" : "Fully engaged in the ongoing COVID-19 pandemic, GOARN partners are commemorating the anniversary by sharing their COVID-19 response activities internationally",
  "posted_by" : "taman gupta",
  "comments" : [
    {
      "comment_id" : 101,
      "message" : "some comment from user",
      "timestamp" : ISODate("2020-05-04T11:45:36.326Z")
    }
  ],
  "created_at" : ISODate("2020-05-04T11:45:36.326Z")
}
> |
```